YAMAHA COMBO PRODUCTS

VOL.9'82

COMBO KEYBOARDS
ELECTRIC GUITARS & BASSES
EFFECTORS
Producer Series
GUITAR & BASS AMPLIFIERS
SOUND REINFORCEMENT
DRUMS

YAMAHA COMBO PRODUCT LINE-UP

COMBO KEYBOARDS (page 1 ~ 7)

Digital Keyboards	GS1, GS2
Electric Grand Pianos	CP-80, CP-70B
Electronic Pianos	CP35, CP25, CP11, CP-30, CP-20, CP10
Symphonic Ensembles	SK50D, SK30, SK20, SK15, SK10
Programmable Memory Synthesizers	CS70M, CS-40M, CS-20M
Monophonic Synthesizers	CS15D, CS-15, CS-5
Combo Ensemble	CE20
Leg Stands, Carrying Cases,	LG-30, LG-20, LG-10, LG-5, LC-10P, LC-10K, LC-15D, LC30K, LC-20K, LC-15K, LC20E, SC-11
Foot Switch Pedal & Foot Controller	FC-5, FC-4, FC-3A
Amplifiers for Combo Keyboards	KS50, KS100

ELECTRIC GUITARS & BASSES (page 8 ~ 12)

Electric Guitars	SG2000S, SG1000S, SG400, SG300, SF1200, SF600, SF400, SC600, SC400
Semi-Acoustic Guitars	SA2000S, SA2000, SA1200S
Acoustic Guitars	AE2000, AE1200
Electric Basses	BB2000, BB1200S, BB1000S, BB400S
Strings	H-1070, H-1060, H-1020, H-1010, H-3010, H-4030, H-4020, H-4010

EFFECTORS (page 13)

Effectors	PH-01, CH-01, FL-01, OC-01, DI-01, TB-01, PE-01, NG-01, LS-01, CO-01, LI-01, MP-01, AD-10, SB-100, SB-200

PRODUCER SERIES (page 14)

Producer Series	MA10, MM10, MH10, CS01

GUITAR & BASS AMPLIFIERS (page 15 ~ 17)

Stackable Guitar & Bass Amplifiers	G100II, B100II, S412, S215, S115
Pre-Amplifiers	PG1, PB1
Guitar & Bass Amplifiers	G100-115II, G100-212II, G100-210, G100-112, G50-112II, B100-115II, B100-115SE, B50-115II
Foot Switch	FS-2
JX Series	JX50, JX40, JX30, JX20, JX50B, JX30B, G-5

SOUND REINFORCEMENT (page 18 ~ 28)

Mixing Consoles	PM-2000-32, PM-2000-24
M Series	M1532, M1516, M916, M512, M508, M406
PM Series	PM-210, PM-180, PM-170
MQ Series	MQ1602, MQ1202, MQ802
Self-Powered Mixers	EM-300, EM-200, EM-150II, EM-120, EM-100II, EM-95, EM-85
Power Amplifiers	P2200, P2201, P2100, P2050
Analog Delays	E1010, E1005
Graphic Equalizer	Q1027
Frequency Dividing Networks	F1040, F1030
Speaker Systems	S515HT, S415H, S315H, S0410H, S0112T, S0110T, S0108T, S215H, A0410H, A415H, A0112T
Speaker Components	JA3881/3881B, JA3882/3882B, JA4280B, JA6681B, JA4281B, H1230, AD3500/3502, DN2800/2080, D6681B, D4281B, D4280B
Miscellaneous	Modules for the PM-2000, Mixer Racks, DM-5080

DRUMS (page 29 ~ 33)

System Drums	YD-9000RA Series, YD-9000GA Series, YD-7000GA Series, YD-5000GA Series
Shells	BD-922RA, BD-922GA, BD-722GA, BD-522GA, FT-916RA, FT-916GA, FT-716GA, FT-516GA, FT-913RA, FT-913GA, FT-713GA, FT-513GA, ET-9000R
Share Drums	SD-055MA, SD-955MA, SD-755MA, SD-550MA, SD-955RA, SD-970GA, SD-765GA
Hardware	SS-910, SS-710, SS-510, HS-910, HS-710, HS-510, WS-910, WS-712, WS-710, CS-912, CS-910, CS-712, CS-710, CS-510, ETS-914, CL-914, ETS-912, ETS-910, ETS-710, TH-91W, TH-71W, TH-51W, TH-91S, TH-71S, EH-91W, CL-912, CL-910, FP-910, FP-710, FR-510, DS-910, DS-710, DS-510 CH-712, CH-710, SB-910, CSAT-914, CSAT-912, CSAT-910, HSAT-910, MU-912, MU-910

COMBO KEYBOARDS

Digital Keyboards

New

GS1

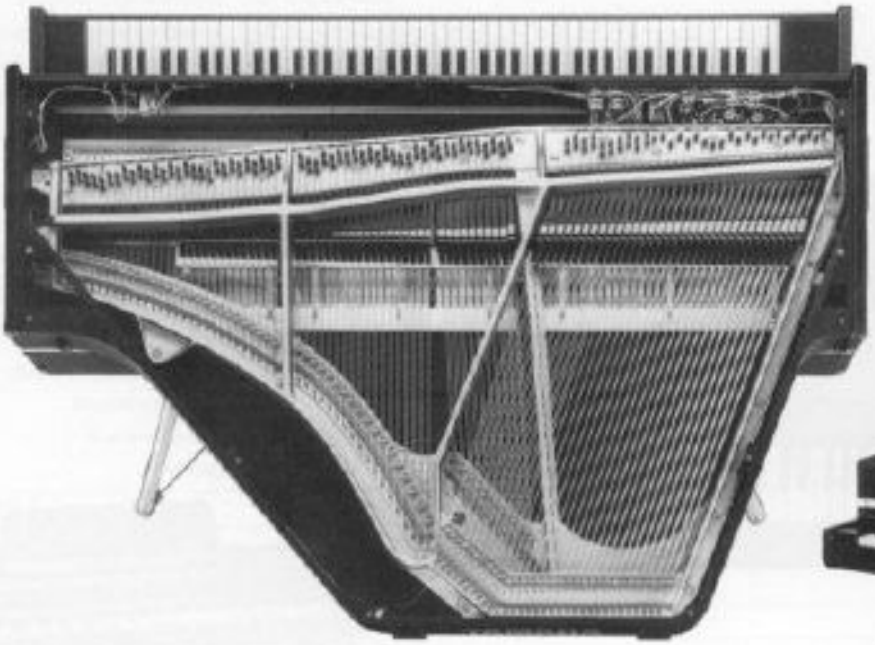
88 keys ($A_1 \sim C_7$)
4 Sets of FM Digital Tone Generators,
16 Notes, 16 Voice Selectors
Controls: Master Pitch, Detune (Random/Static), Vibrato, Tremolo,
Ensemble, Touch Response, Equalizer (Bass/Mid/Treble), Master Volume
Pedal Controls: Damper, Tremolo, Vibrato
Card Reader, Voice Library with 32 Voice Cards

New

GS2

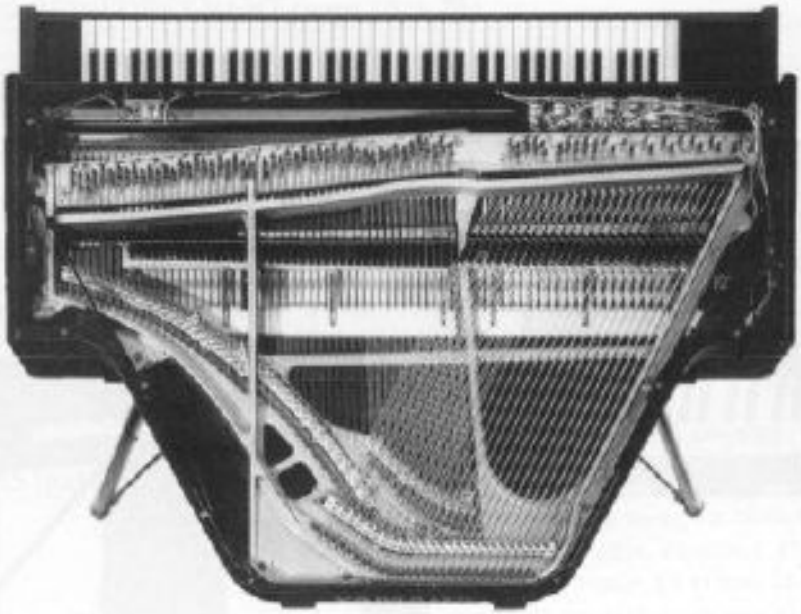
73 keys ($E_0 \sim E_6$)
2 Sets of FM Digital Tone Generators,
16 Notes, 16 Voice Selectors
Controls: Master Pitch, Detune (Static), Vibrato, Tremolo,
Ensemble, Equalizer (Bass/Mid/Treble), Master Volume
Pedal Controls: Damper, Tremolo, Vibrato
Card Reader, Voice Library with 32 Voice Cards

Electric Grand Pianos



CP-80

88 keys ($A_1 \sim c_6$)
Controls: Bass, Middle, Treble,
Brilliant Level Selector Switch,
Tremolo Speed and Depth, Volume



Compact; easy to carry and easy to store.

CP-70B

73 keys ($E_1 \sim e_4$)
Controls: Bass, Middle, Treble,
Tremolo Speed and Depth, Volume

Electronic Pianos

New

CP35

73 keys ($E_0 \sim E_6$)
Velocity-Sensitive Touch Response
16 Notes
Controls: Pitch I, II, Decay I, II, Tremolo, Flanger,
Wave I (A, B, C, D), Wave II (A, B, C, D)
Filter I (1, 2, 3, 4), Filter II (1, 2, 3, 4, 5th, 8th)
Presets (1, 2, 3, 4), Balance (I–II)
EQ (Bass/Treble), Volume

New

CP25

61 keys ($E_0 \sim E_5$)
Velocity-Sensitive Touch Response
Single Mode: 16 Notes, Dual Mode: 8 Notes
Controls: Mode (Dual/Single Selector), Pitch I, II,
Decay I, II, Tremolo, Flanger,
Wave (A, B, C, D), Filter (1, 2, 3, 4, 5th, 8th)
Balance (1, 2 – 3, 4), EQ (Bass/Treble), Volume

New

CP11

61 keys ($C_1 \sim C_6$)
Tone Selector: Piano 1, 2, Harpsichord 1, 2
Controls: Pitch, Tremolo, Sustain, Equalizer (Bass/Treble),
Volume
Auto Accompaniment: Rhythm (8 types), Bass & Chord,
Arpeggio, Tempo, Rhythm Start, Key Start
Built-in Amp/Speaker

SC-11 Soft Case

Electronic Pianos

CP-30

76 keys ($E_1 \sim g_6$)
Tone Selectors: Piano 1, 2, 3, Harpsichord (per channel)
Controls: Pitch, Decay, Tremolo Speed and Intensity,
Bass, Treble, Balance, Volume

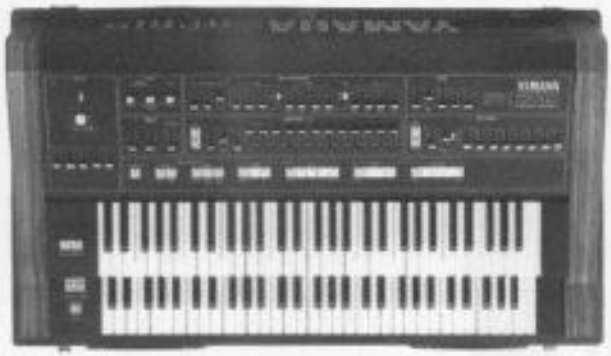
CP-20

61 keys ($F_1 \sim f_4$)
Tone Selectors: Piano 1, 2, Harpsichord 1, 2
Controls: Pitch, Decay, Tremolo Speed and Intensity,
Bass, Treble, Balance, Volume

CP10

61 keys ($C \sim c_4$)
Tone Selectors: Piano 1, 2, Harpsichord 1, 2
Controls: Pitch, Tremolo Speed, Sustain,
5-Band Graphic EQ, Volume

Symphonic Ensembles



SK50D

61 keys ($c_1 \sim c_6$), 2 Keyboards, 7 notes
Upper Organ Full Coupler, Lower Organ, String, Poly-Synth, Solo Synthesizer, Tremolo/Ensemble, Percussive, Touch Vibrato/Brilliance/Modulation (Solo), Vibrato (Poly-Synth), Sustain, Slow Attack, Manual Bass

* Bass Pedal available as optional attachment

SK30

61 keys ($c_1 \sim c_6$), 7 notes
Organ Full Coupler, String, Poly-Synth, Solo-Synthesizer, Keyboard Split, Tremolo/Ensemble, Percussive, Touch Vibrato/Brilliance/Modulation (Solo), Vibrato (Poly-Synth), Sustain, Slow Attack, Manual Bass

SK20

61 keys ($c_1 \sim c_6$), 7 notes
Organ, String, Poly-Synth, Keyboard Split, Tone Selectors, Tremolo/Ensemble, Percussive, Brilliance, Sustain, Decay, Vibrato

New

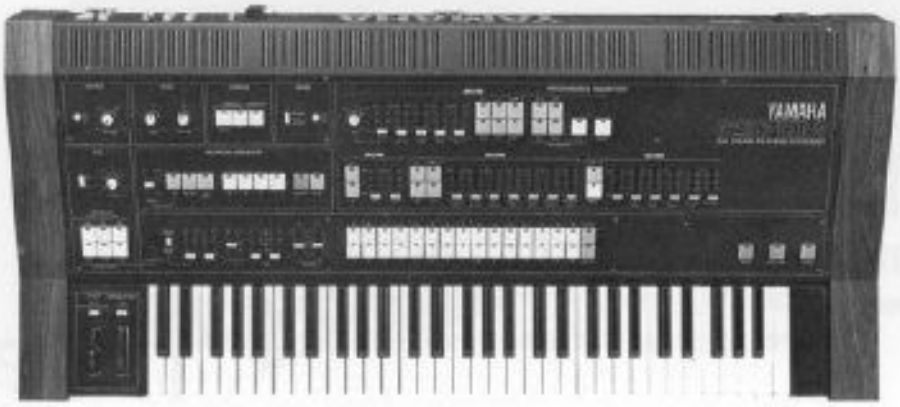
SK15

49 keys ($C_2 \sim C_6$), 4 octaves
Organ Section: 16', 8', 5-1/3', 4', 2', Percussive
String Section: 16', 8'
Poly-Synth Section: Feet, Cut Off Freq, Resonance, EG Depth, A, D, S, R, Slow Attack
Effects: Vibrato, Tremolo/Ensemble, Sustain, Brilliance

SK10

49 keys ($c \sim c_4$)
Simultaneous Notes: Up to 8
Tone Selectors: Organ (8'/4'/2'), String (8'/4'), Brass (8'/4')
Effect Controls: Pitch, Transposition, Vibrato, Brilliance, Slow Attack, Sustain

Programmable Memory Synthesizers



CS70M

61 keys ($c_1 \sim c_6$), 6 Notes, 2 channels
12 VCO, 12 VCF, 12 VCA, 12 EG (FOR VCA),
12 EG (FOR VCF), 1 LFO (Programmable),
1 LFO (Non Programmable)
30 Voice, 39 Parameter MEMORY.
Magnetic DATA CARD system
4-Bank Polyphonic SEQUENCER
Feet Selectors : 6 settings (X2) 2 feet ~ 16 feet
Effect Controls : Ensemble/Tremolo (Slow/Fast)
Portamento/Glissando time set, Sustain, Brilliance,
Pitch Bend, Modulation, Keyboard Split

CS-40M

44 keys ($f \sim c_4$)
4 VCO, 2 VCF, 2 VCA, 4 EG, 1 LFO
Duophonic/Monophonic (Unison) Selectable
Feet Selectors: 6 settings (x 2)
Effect Controls: Unison, Portamento/Glissando,
Brilliance, Sustain, Pitch Bend, Modulation

CS-20M

37 keys ($c_1 \sim c_4$)
2 VCO, 1 VCF, 1 VCA, 2 EG, 1 LFO
Feet Selectors: 6 settings (x 2)
Effect Controls: Portamento/Glissando,
Brilliance, Sustain, Pitch Bend, Modulation

Monophonic Synthesizers

CS15D

37 keys ($c \sim c_3$)
2 VCO, 2 VCF, 2 VCA, 4 EG, 1 LFO
Feet Selector: 5 settings
Tone Selectors: 29 Presets, 1 Programmable
Effect Controls: Portamento, Brilliance,
Sustain, Pitch Bend, Modulation

CS-15

37 keys ($c_1 \sim c_4$)
2 VCO, 2 VCF, 2 VCA, 2 EG, 1 LFO
Feet Selectors: 6 settings (x 2)
Effect Controls: Portamento, Pitch Bend,
Brilliance

CS-5

37 keys ($c_3 \sim c_6$)
1 VCO, 1 VCF, 1 VCA, 1 EG, 1 LFO
Feet Selector: 6 settings
Effect Controls: Portamento, Pitch Bend

Combo Ensemble

New

CE20

49 Keys (C_2~C_6)
Voice Selectors
Monophonic (1 Note): 14 Voices (Piccolo, Oboe, Clarinet, Saxphone, Trumpet 1/2, Trombone, Violin, Cello, Contra Bass 1/2, Electric Bass 1/2
Polyphonic (8 Notes): 6 Voices (Brass, Horn, Organ, Electric Piano, Harpsichord, Strings)
Effects: Tone Initial, Vibrato, Presets Symphonic, Brilliance, Initial Touch Responce, After Touch Control
Controls: Pitch, Sustain, Expression Volume

LC-20E Keyboard Case

LG-5 Leg Stand with Soft Case

Leg Stands, Carrying Cases, Foot Switch Pedal & Foot Controller

LG-30

LG-20

LC-10P

LC-15D

Foot Switch Pedal

FC-5
Sustain ON/OFF for CP10/CP11/CE20, Memory ON/OFF for CP11.

FC-4
CP-30/20, CS40M/20M, SK50D/30/20/10
Foot Switch for Portamento: CS40M/20M, SK50D/30
Foot Switch for Tremolo: CP-30
The CP-30/20 include one FC-4.

Foot Controller (Expression Pedal)

FC-3A
Foot Volume Controller: CS-40M/20M, SK50D/30/20/10
Foot Filter Controller: CS-40M
The SK50D/30 include one FC-3A

• Photo not shown.

Model	Case	Leg Stands	Model	Case	Leg Stands
CP11	SC-11	LG-10/20/30	SK15	•LC-15K	LG-10/20/30
CP10	LC-10P	LG-10/20/30	SK10	•LC-10K	LG-10/20/30
SK30	•LC-30K	LG-20	CS15D	LC-15D	LG-10/20/30
SK20	•LC-20K	LG-20	CE20	LC-20E	LG-5

Amplifiers for Combo Keyboards

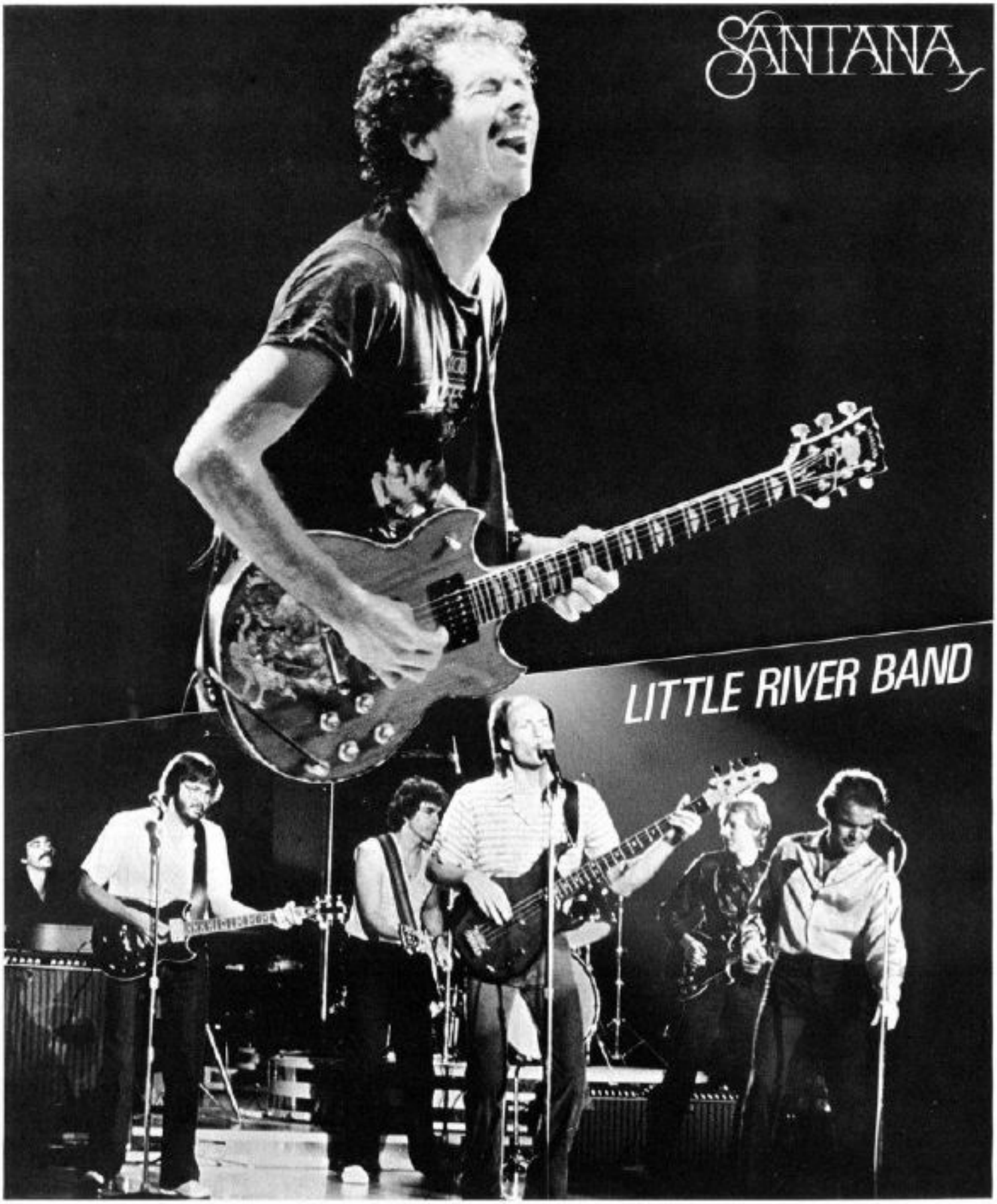
KS50

Output Power 50W (RMS)
Woofer: 1 x 12"(30cm) JA3066
Tweeter: PIEZO TW.
4 Input Channels

KS100

Output Power 100W (RMS)
Woofer: 1 x 15"(38cm) JA3803
Tweeter: JA4204
4 Input Channels

ELECTRIC GUITARS & BASSES



Electric Guitars

SG Series
Solid body
(Humbucking)

New

SG2000S

Deep Green
Brown Sunburst
Cherry Sunburst

SG1000S

Cherry Sunburst
Black
(Left-handed model SG1000SL available on order)

SG400

Brown Sunburst
Cherry

SG300

Burgundy
Black

SF Series
Solid body
(Humbucking)

New

SF1200

Persimmon Red
Oil Stain

SF600

Chestnut
Jade Green

SF400

Metalic Red
Oil Stain

SG2000S
SG1000S

SG400
SG300

SF1200
SF600
SF400

SC Series
Solid body
(Single Coil)

New

SC600
Persimmon Red
Oil Stain

SC400
Persimmon Red
Oil Stain

Yamaha Guitars and Basses Help

SG Series
Uncompromising choice and combining of woods, faultless craftsmanship and powerful open-type humbucking pickups deliver outstanding sustain and bright, sparkling sound. Clean, elegant double cutaway design affords easy access all the way to the highest neck positions.

SF Series
This series is ideal if you need a really solid sound with plenty of punch. You also have extensive distortion control right at your fingertips so a wild, hard-rock sound is incredibly easy to achieve. All models in this series have Alnico-5 pickup magnets for extra power and projection.

SC Series
A unique design based on advanced Yamaha human-engineering achieves superb playability and balance. Form-fitting design permits easy access throughout the instrument's range.

SA Series
Semi-Acoustic

SA2000S
Antique Stain
Burgundy

SA2000
Brown Sunburst
Burgundy

SA1200S
Brown Sunburst
Burgundy

To Make Your Music Understood.

SA Series

For that smooth, mellow jazz sound the SA2000S and SA1200S with their selected spruce tops are undoubtedly the professionals choice. They also feature Yamaha's unique Bi-Sound single-coil/humbucking pickup switching system for exceptional tonal flexibility. An outstanding alternative is the SA2000 with a choice beech and birch body and a mahogany neck for really meaty, perfectly balanced sound.

AE Series

Featuring precision craftsmanship and the kinds of materials found in only the finest acoustic guitars, the AE2000 and AE1200 provide the warm sound and intimate playability that contemporary jazz and crossover musicians demand.

BB Series

These fine bass guitars offer full, balanced response with startling punch and definition. Yamaha basses are developed in cooperation with leading performing musicians, so you're guaranteed ideal sound and response for contemporary playing styles.

AE Series
Acoustic

AE2000
Antique Stain

AE1200
Antique Stain

Electric Basses

BB Series
Solid body

New

BB2000
Natural
Brown Stain
(Fretless model BB2000F available on order)

BB1200S
Deep Green
Burgundy
(Left-handed model BB1200SL available on order)

BB1000S
Oil Stain
Persimmon Red

BB400S
Natural
Chestnut

AE2000
AE1200

BB2000
BB1200S

BB1000S
BB400S

Strings

Electric Guitar Strings

Extra Light Gauge
H-1070 Complete Set
H-1071 E-1st 0.20mm (0.008") Plain
H-1072 B-2nd 0.26mm (0.010") Plain
H-1073 G-3rd 0.35mm (0.014") Plain
H-1074 D-4th 0.59mm (0.023") Wound
H-1075 A-5th 0.74mm (0.029") Wound
H-1076 E-6th 0.94mm (0.037") Wound

Super Light Gauge
H-1060 Complete Set
H-1061 E-1st 0.23mm (0.009") Plain
H-1062 B-2nd 0.29mm (0.011") Plain
H-1063 G-3rd 0.40mm (0.016") Plain
H-1064 D-4th 0.65mm (0.026") Wound
H-1065 A-5th 0.82mm (0.032") Wound
H-1066 E-6th 1.06mm (0.042") Wound

Light Gauge
H-1020 Complete Set
H-1021 E-1st 0.26mm (0.010") Plain
H-1022 B-2nd 0.32mm (0.013") Plain
H-1023 G-3rd 0.42mm (0.017") Plain
H-1024 D-4th 0.65mm (0.026") Wound
H-1025 A-5th 0.82mm (0.032") Wound
H-1026 E-6th 1.17mm (0.046") Wound

Regular Gauge
H-1010 Complete Set
H-1011 E-1st 0.32mm (0.013") Plain
H-1012 B-2nd 0.40mm (0.016") Plain
H-1013 G-3rd 0.69mm (0.028") Wound
H-1014 D-th 0.82mm (0.032") Wound
H-1015 A-5th 1.11mm (0.044") Wound
H-1016 E-6th 1.36mm (0.054") Wound

Flat Wound Regular Gauge
H-3010 Complete Set
H-3011 E-1st 0.35mm (0.014") Plain
H-3012 B-2nd 0.45mm (0.018") Plain
H-3013 G-3rd 0.66mm (0.027") Flat Wound
H-3014 D-4th 0.90mm (0.035") Flat Wound
H-3015 A-5th 1.18mm (0.048") Flat Wound
H-3016 E-6th 1.56mm (0.059") Flat Wound

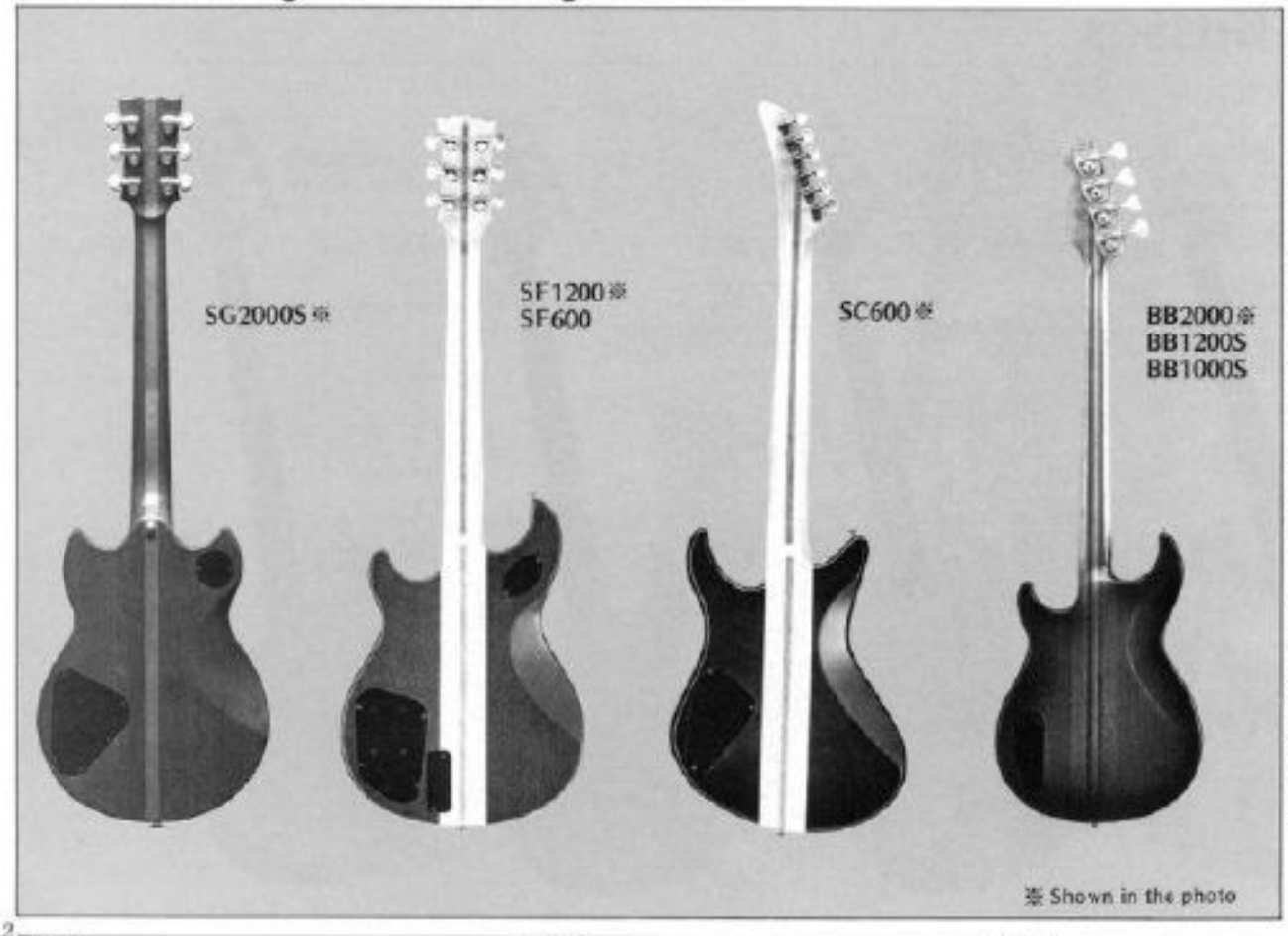
Electric Bass Strings

Round Wound for Long Scale Bass
H-4030 Complete Set
H-4031 G-1st 1.12mm (0.045") Round Wound
H-4032 D-2nd 1.60mm (0.065") Round Wound
H-4033 A-3rd 2.13mm (0.085") Round Wound
H-4034 E-4th 2.72mm (0.105") Round Wound

Flat Wound for Long Scale Bass
H-4020 Complete Set
H-4021 G-1st 1.28mm (0.050") Flat Wound
H-4022 D-2nd 1.59mm (0.062") Flat Wound
H-4023 A-3rd 2.12mm (0.083") Flat Wound
H-4024 E-4th 2.39mm (0.094") Flat Wound

Flat Wound for Short Scale Bass
H-4010 Complete Set
H-4011 G-1st 1.26mm (0.050") Flat Wound
H-4012 D-2nd 1.67mm (0.065") Flat Wound
H-4013 A-3rd 2.00mm (0.080") Flat Wound
H-4014 E-4th 2.50mm (0.100") Flat Wound

The Outstanding Feature: Through Neck



Super-Sound Feature: the Yamaha Through-Neck

Many of Yamah's finest guitars and basses feature a through-neck design in which the neck extends all the way to the heel of the body, rather than being glued or bolted in a set-neck configuation. This means more efficient, more uniform transmission of string vibration to the body and pick-ups for dramatically improved response and playability. The Yamaha through-neck is featured on the SG2000S, SF1200, SF600, SC600, BB2000, BB1200S and BB1000S.

H-1070
H-1060
H-1020
H-1010
H-3010
H-4030
H-4020
H-4010

EFFECTORS

New

PHASER
PH-01
Functions: Speed, Depth

CHORUS
CH-01
Functions: Speed, Depth, Direct Out for Stereo

FLANGER
FL-01
Functions: Speed, Depth, Feedback, Manual

OCTAVER
OC-01
Functions: Effect Level, Direct Level, Polarity SW(A/B)

DISTORTION
DI-01
Functions: Tone, Distortion, Out Level

TONE BOOSTER
TB-01
Functions: Treble, Bass, Gain, Out Level

PARAMETRIC EQ
PE-01
Functions: Band-Width, Frequency, Gain

COMPRESSOR
CO-01
Functions: Sensitivity, Out Level, Attack SW (1, 2)

LIMITER
LI-01
Functions: Release Time, Threshold, Out Level

NOISE GATE
NG-01
Functions: Threshold, Release Time

LINE SELECTOR
LS-01
Functions: SEND 1, 2 Return 1, 2

MINI PEDAL
MP-01
Functions: Pedal Volume, Sub Volume

ANALOG DELAY
AD-10
Functions: Input Level, Delay Time, Feedback, Effect Level, Peak Indicator, Power Indicator

PROFESSIONAL SYSTEM BOARD
SB-100
Functions: Pedal Function SW, CV Selector SW

PROFESSIONAL SYSTEM BOARD
SB-200
Functions:
Front Panel: Out Level Indicator, All Pass SW., Phones In, Phones Out, Phone Volume, Signal Cord Check
Patch Panel: In, Out, CV, Inst Direct Out, Final In, Junction
Rear Panel: Panel Light Connector

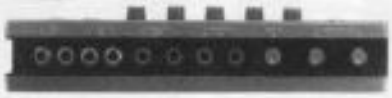
** COMMON FEATURES*
Indicator, Effect Foot Switch, Input (Standard phone jack with built-in power switch) Output (Standard phone jack)

** AC ADAPTORS*
Special AC adaptors are available to power your effects units from 220 – 240 volts AC (SA-01) or from 110 – 120 volts AC (SA-02).

PH-01	OC-01	PE-01	NG-01	AD-10
CH-01	DI-01	CO-01	LS-01	SB-100
FL-01	TB-01	LI-01	MP-01	SB-200

Producer Series

New



Headphone Amplifier
MA10

Controls: Volume, Master Volume, Treble, Bass, HP Level, Aux In, Monitor In 1/2
Jacks: Input, HP Out 1/2, Monitor In 1/2, Monitor Out 1/2, Aux In L/R, Line Out L/R
Ambience Effect, Battery ("R6" x 6) or AC adaptor

Portable Mixer
MM10

Input: 4ch. (Volume, Panpot, Mic/Line), Aux In x 2 (with 1 volume)
Output: Program Out x 2 (with Master Volume) Line Out x 2
Battery (6F22 x 1) or AC Adaptor

MA10/MM10 Dimensions
W223.5 x H52 x D129.5 (mm)

Stereo Headphones
MH10

Dynamic Type, Frequency Response 20 ~ 20kHz, Sensitivity 99dB/mW/1kHz, Impedance 40Ω

Micro-Monophonic Synthesizer
CS01

32 keys ($F_2 \sim C_5$)
Controls: LFO, Glissando, VCO, VCF, VCA, EG, Wheel (Pitch, Modulation), Breath Control (VCF, VCA), Volume
Battery ("R6" x 6) or AC Adaptor
Built-in Amp/Speaker
Dimension: W489 x D160 x H36mm, Weight: 1500g

Breath Controller
BC1

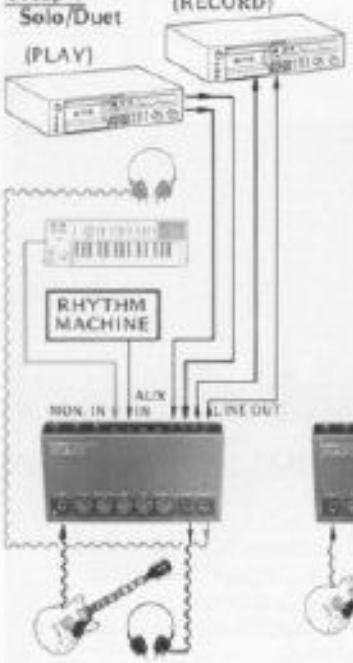
AC Adaptor PA-1

MSC-10 Soft Case for MA,MM

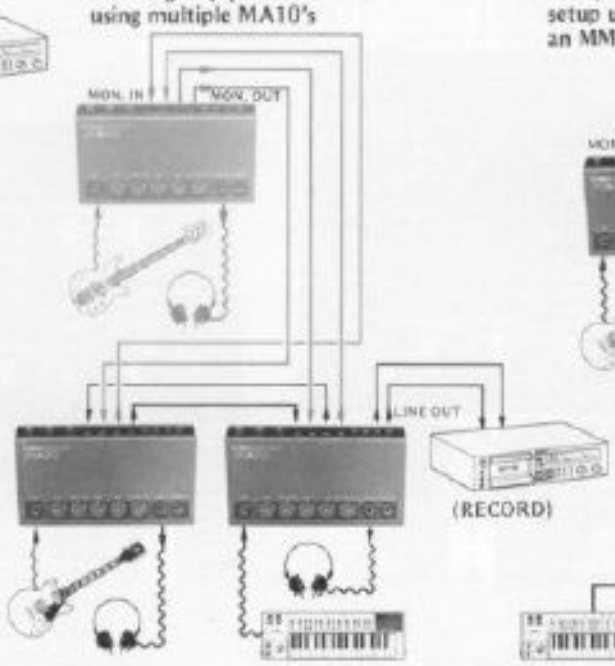
SC-01 Soft Case for CS01

APPLICATION

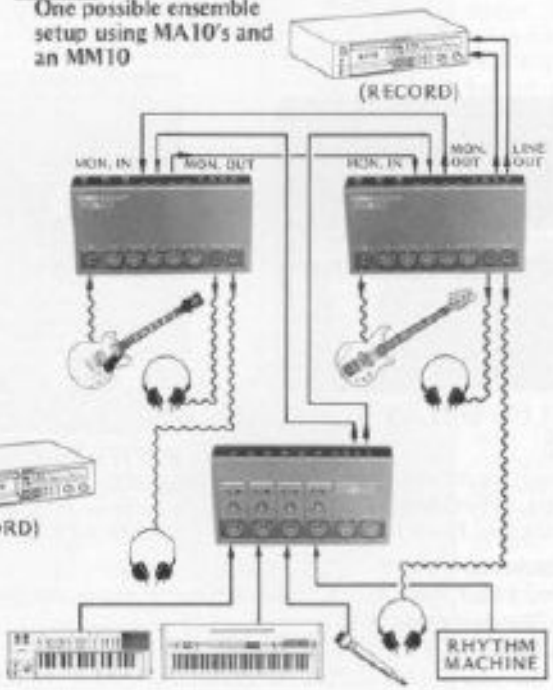
Setup 1
Solo/Duet



Setup 2
Private group practice using multiple MA10's



Setup 3
One possible ensemble setup using MA10's and an MM10



GUITAR & BASS AMPLIFIERS

Stackable Guitar & Bass Amplifiers (separate type)

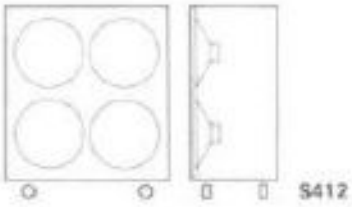
B100II

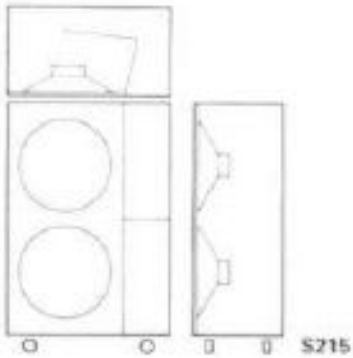
Bass Amplifier Head
100 Watts RMS @10% THD
into 4 to 8Ω
Controls: Volume, Treble, Middle, Bass, 5-Band EQ, Signal Out
530x240x280mm
(20-3/4x9-1/2x11)"
13.5kg (29.8 lbs)

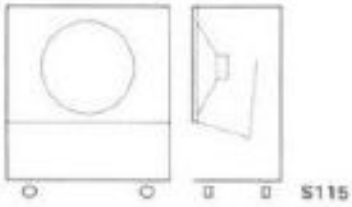
G100II

Guitar Amplifier Head
100 Watts RMS @10% THD
into 4 to 8Ω
Controls: Volume(CH.A), Pull Fat(CH.A) Treble, Pull Bright, Middle, Bass, Gain(CH.B) Pull Fat (CH.B), Master Volume(CH.B), Parametric EQ, Reverb, Reverb F. SW. Jack, CH.A/B Select F. SW. Jack, Direct Out
634x270x280mm(24-3/4x10-1/2x11)"
16.5kg (36.4 lbs)

ENCLOSURE DESCRIPTIONS







S115

Speaker Enclosure
Power Rating: 120 Watts RMS
1 x 15" (38cm) JA3807 speaker
Impedance: 8Ω
707x820*x380mm
(27-3/4x32-1/4*x15)"
41kg (90.4 lbs)

S215

Speaker Enclosure
Power Rating: 240 Watts RMS
2 x 15" (38cm) JA3807 speaker
Impedance: 4Ω
707x1,070*x380mm
(27-3/4x42-1/8*x15)"
55kg (121.3 lbs)

S412

Speaker Enclosure
Power Rating: 240 Watts RMS
4 x 12" (30cm) JA3066 Speaker
Impedance: 8Ω
707x820*x380mm(27-3/4x32-1/4*x15)"
42kg (92.6 lbs)

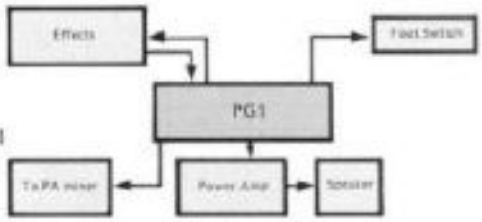
* Heigh includes casters.

Pre-Amplifiers New

PG1 for Guitar

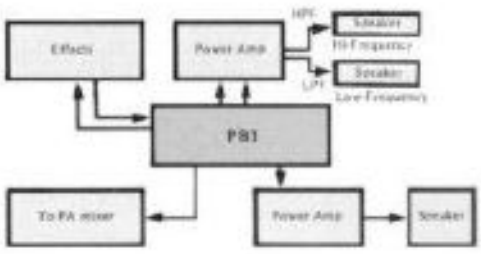
Controls: Ach (Volume, Treble, Middle, Bass), Bch (Gain, Master Volume, Treble, Middle, Bass), Parametric EQ, Reverb, Phones Level
Rear Panel: Effect Send & Return with Level Control, Output (Balanced/Unbalanced)
(Foot Switch: Ch. A/B, PEQ, IN/OUT, Reverb ON/OFF)

APPLICATION



PB1 for Bass

Controls: Volume, Treble, Middle, Bass, Parametric EQ, Crossover (LPF ... LEVEL/FREQ., HPF ... LEVEL/FREQ.)
Rear Panel: Effect Send & Return with Level Control Output (Balanced/Unbalanced LPF/HPF Out)



G100II
B100II
S412
S215
S115
PG1
PB1

Guitar & Bass Amplifiers (built-in type)

G&B Mark II Series

G100-115II
100 Watts RMS @10% THD
into 8Ω
1 x 15" (38cm) JA3802
speaker

G100-112
100 Watts RMS@10% THD
into 8Ω
1 x 12" (30cm) JA3062
speaker

B100-115II
(Bass Amplifier.)
100 Watts RMS @10% THD
into 8Ω
1 x 15" (38cm) JA3807
speaker

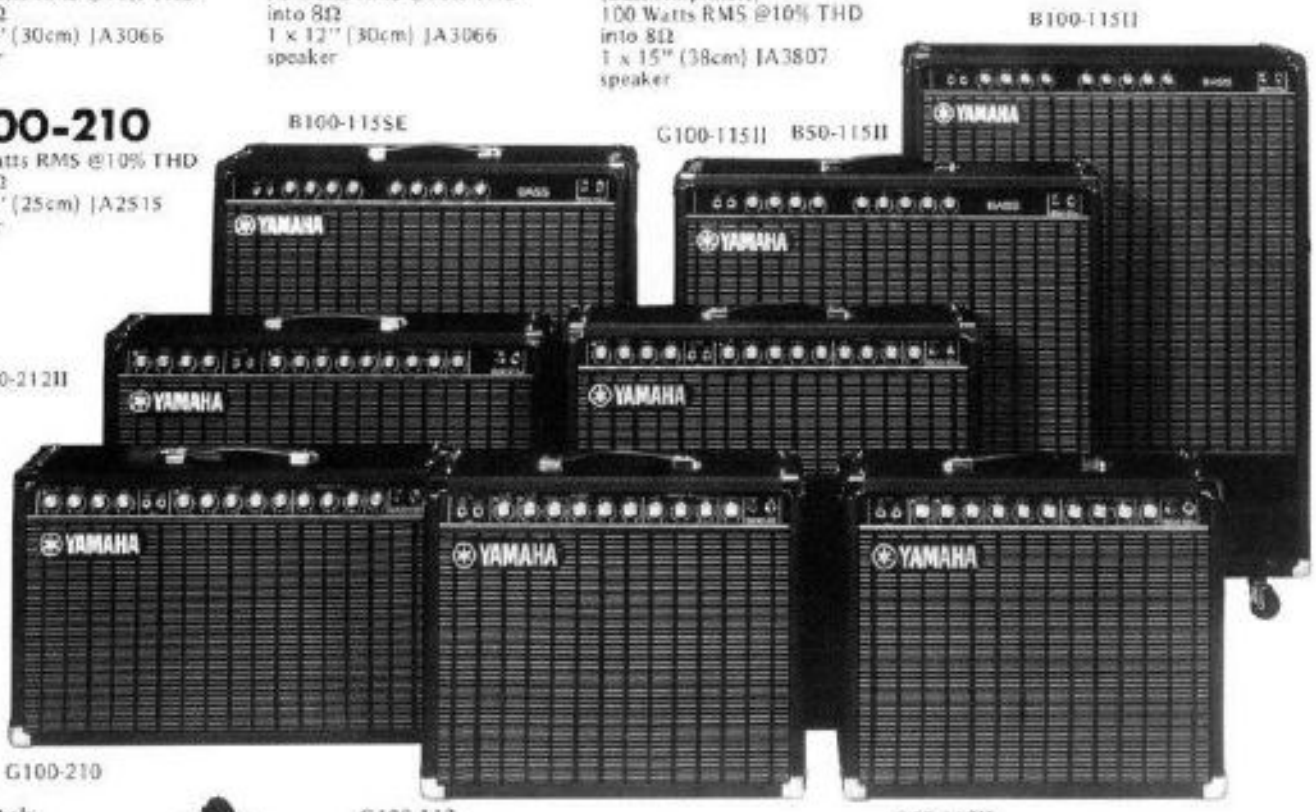
B50-115II
(Bass Amplifier.)
50 Watts RMS @10% THD
into 8Ω
1 x 15" (38cm) JA3855
speaker

G100-212II
100 Watts RMS @10% THD
into 4Ω
2 x 12" (30cm) JA3066
speaker

G50-112II
50 Watts RMS @10% THD
into 8Ω
1 x 12" (30cm) JA3066
speaker

B100-115SE
(Bass Amplifier.)
100 Watts RMS @10% THD
into 8Ω
1 x 15" (38cm) JA3807
speaker

G100-210
100 Watts RMS @10% THD
into 4Ω
2 x 10" (25cm) JA2515
speaker



Foot Switch
FS-2
The twin-button foot switch for guitar amps.

PHISICAL DIMENSIONS

Model	Dimensions (W x H x D)	Net Weight	Model	Dimensions (W x H x D)	Net Weight
G100-115II	634 x 600* x 280 mm (25 x 23-1/2* x 11)"	31 kg (68.3 lbs)	JX50	544 x 455 x 210 mm (21-1/2 x 18 x 8-1/4)"	15.2 kg (33.5 lbs)
G100-212II	687 x 560* x 280 mm (27 x 22* x 11)"	28 kg (61.7 lbs)	JX40	508 x 455 x 210 mm (20 x 18 x 8-1/4)"	14.2 kg (31.3 lbs)
G100-210	634 x 410 x 270 mm (25 x 16-1/8 x 10-1/2)"	23 kg (50.7 lbs)	JX30	473 x 455 x 210 mm (18-1/2 x 18 x 8-1/4)"	13.6 kg (29.9 lbs)
G100-112	530 x 450 x 270 mm (20-3/4 x 17-3/4 x 10-1/2)"	21 kg (46.3 lbs)	JX20	420 x 400 x 200 mm (16-1/2 x 15-3/4 x 7-3/4)"	12.0 kg (26.5 lbs)
G50-112II	530 x 450 x 270 mm (20-3/4 x 17-3/4 x 10-1/2)"	18 kg (39.7 lbs)	JX50B	594 x 680 x 300 mm (23-1/4 x 26-3/4 x 11-3/4)"	26.6 kg (58.6 lbs)
B100-115II	687 x 950* x 370 mm (27 x 37-1/2* x 14-1/2)"	52 kg (114.6 lbs)	JX30B	544 x 635 x 280 mm (21-1/2 x 25 x 11)"	22.0 kg (48.5 lbs)
B100-115SE	687 x 790* x 400 mm (27 x 31-1/8* x 15-3/4)"	44 kg (97 lbs)	G-5	300 x 255 x 150 mm (11-3/4 x 10 x 6)"	4 kg (8.9 lbs)
B50-115II	687 x 790* x 320 mm (27 x 31-1/8* x 12-1/2)"	35 kg (77.2 lbs)			

* Height includes casters.

JX Series

JX50
50 Watts RMS @3% THD into 8Ω
1 x 12" (30cm) JA3066 speaker

JX30
30 Watts RMS @3% THD into 8Ω
1 x 12" (30cm) JA3067 speaker

JX40
30 Watts RMS @3% THD into 8Ω
1 x 12" (30cm) JA3066 speaker

JX20
20 Watts RMS @3% THD into 8Ω
1 x 10" (25cm) JA2513 speaker

JX50B
(Bass Amplifier)
50 Watts RMS @3% THD into 8Ω
1 x 15" (38cm) JA3853 speaker

JX30B
(Bass Amplifier)
30 Watts RMS @3% THD into 8Ω
1 x 15" (38cm) JA3854 speaker

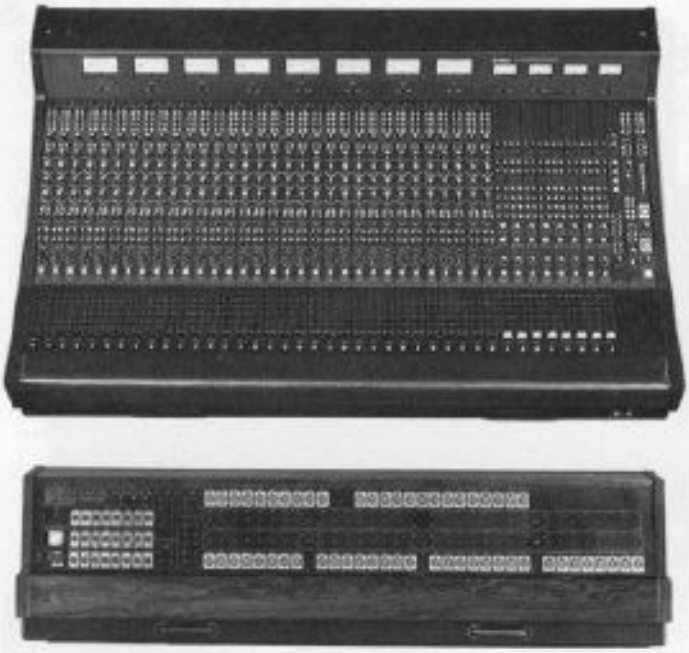
G-5

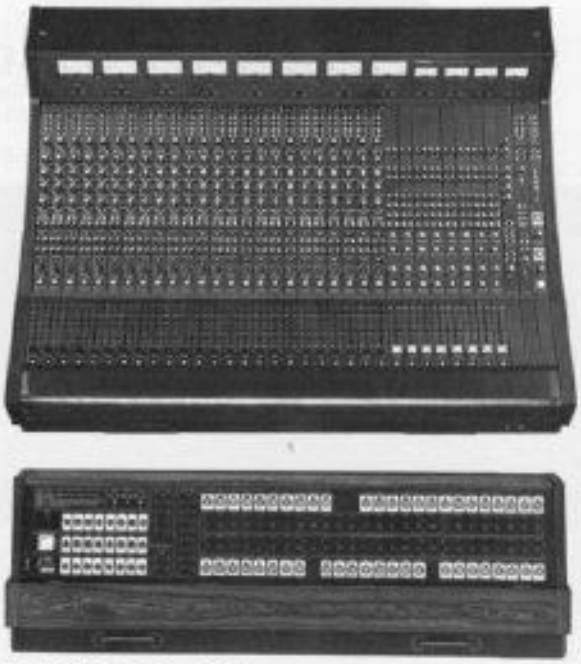
G-5
7 Watts RMS @ 10% THD into 4 Ω
1 x 16cm JA1651 speaker

CONTROL AVAILABILITY CHART	G100-212II Ch.A	G100-212II Ch.B	G100-210 Ch.A	G100-210 Ch.B	G100-115II Ch.A	G100-115II Ch.B	G100-112 Ch.A	G100-112 Ch.B	G50-112II Ch.A	G50-112II Ch.B	B100-115II / B100-115SE	B10-115II	JX50	JX40	JX30	JX20	JX50B	JX30B	G-5
FRONT PANEL CONTROLS																			
VOLUME	•		•		•		•		•		•	•	•	•	•	•	•	•	•
PULL FAT	•		•		•		•		•										
PULL GAIN													•	•	•	•			
TREBLE	•	•	•	•	•	•	•		•		•	•	•	•	•	•	•	•	•
PULL BRIGHT	•	•	•	•	•	•	•		•										
MIDDLE	•	•	•	•	•	•	•		•		•	•	•	•	•		•	•	
BASS	•	•	•	•	•	•	•		•		•	•	•	•	•	•	•	•	•
GAIN		•		•		•		•		•									
PULL FAT		•		•		•		•		•									
MASTER VOLUME		•		•		•		•		•			•	•	•	•			•
FAT													•	•					
BASS BOOST																	•		
PARAMETRIC EQ.		•		•		•		•		•									
REVERB		•		•		•		•		•			•	•	•	•			•
5-BAND EQ.											•	•							
HEADPHONES JACK													•	•	•	•	•	•	
REAR PANEL JACKS																			
REVERB JACK		•		•		•		•		•			•	•					
CH. A/B SELECT JACK		•		•		•		•		•									
HEADPHONES JACK																			•
DIRECT OUT JACK		•		•		•		•		•									
SIGNAL OUT CONNECTOR											•								

SOUND REINFORCEMENT

Mixing Consoles





PM-2000-32

PM-2000-24

PM-2000 (32 or 24)
Inputs: 32 Channel (PM-2000-32), 24 Channel (PM-2000-24), 14 Sub In, 8 Aux In, 2 Effects In, 1 Talkback Mic In, 1 Talkback Line In, 32 or 24 Interstage Patch Fader In, 8 PGM Patch In, 4 FB Patch In, 2 Echo Patch In, Outputs: 8 PGM Out, 8 Matrix Out, 4 FB Out, 2 Echo Out, 1 Talkback Out, 2 Headphones, 1 Mono Phones, 32 or 24 Input Module Interstage Patch EQ Out, 8 PGM Patch Out, 4 FB Patch Out, 2 Echo Patch Out, CH. On/Off Switch, 4-band Equalization, 2 High Pass Filter, EQ On/Off Switch, Echo 1*, Echo 2*, FB 1*, FB 2*, FB 3*, FB 4*, Pan Pot, Pan Pot On/Off Switch, 8 Output Assign Switch, Phase Switch, Phantom Switch, Sensitivity Selector, Cue Button

* with Pre-or Post-Fader Selector Switch

M series

New

M1532

Inputs: 32 Channel:
Fader, EQ (4 Stage), EQf (4 Stage), ECHO 1,2 VOL' FB 1,2 VOL, Panpot, Input Level Switch, QSW, Phantom SW, pre/post Switch, HPF Switch, M1/M2 Switch Assign Switch, Cue Switch.
Effects In: Volume, Assign Switch
Master: PGM Fader (CH 1 ~CH 4), PGM Switch (CH 1 ~ CH 4), Echo Volume, Echo Switch (1, 2), FB Volume (1, 2) FB Switch (1, 2)
Mtrx: PGM Volume (CH 1 ~CH 4), Master Volume, Mtrx Switch
Phones: Volume, Select Switch.
Talkback: Volume, Assign Switch, Gain Switch, OSC Switch, TB Out Switch.

M1516

Inputs: 16 Channel
Input Controls: Channel Fader, Cue, CH on/off, Input Level Switch M1/M2 Switch, CH Phantom on/off, FB Volume, Echo 1, 2 Volume, HPF, 4-Band Equalization, Pan pot, Peak Indicator
Master Controls: PGM Fader, MTRX Master Volume, MTRX on/off Switch, MTRX Volume, Effects in, Cue Effects in Volume, Effects in Assign Switch, FB1, 2 Volume, FB on/off, Echo 1, 2 Volume, Echo on/off Headphone Monitor Switch, Phones Level Volume Talk Back: Talk Back on/off Switch, Input Level Volume, Volume, Mic/Line Switch
Phantom Master Switch

M916

Inputs: 16 Channel
Input Controls: Channel Fader, Cue, Input Level Switch Peak Indicator, M1/M2 Switch, FB1, 2 Volume, Echo 1, 2 Volume, Low-EQ, Mid EQ, High-EQ, HPF, Pan pot Output Controls: PGM L, R Fader, FB1, 2 Fader, Cue MTRX Master Volume, PGM L, R Volume, FB 1, 2 Volume, Aux In Volume, Effects in 1, 2 Volume, Pan pot, Echo 1, 2 Volume, Phones Level, Phones Selector Switch,Talk Back Controls: Talk Back on/off Switch, Input Level Volume, Talk Back out selector switch, Phantom Switch

M512

Inputs: 12 Channel
Input Controls: CH Fader, Input level Switch, Low-EQ, Mid-EQ, High-EQ, Pan pot, FB, Echo, Peak Indicator
Effects in: Volume, Pan pot
Output Controls: PGM Master Faders (L, R), FB Master Fader, Echo Master Fader, Phones Level Volume, Headphone, Selector Switch
Phantom Switch

M508

Inputs: 8 Channel
Input Controls: CH Fader, Input level Switch, Low-EQ, Mid-EQ, High-EQ, Pan pot, FB, Echo, Peak Indicator
Effects in: Volume, Pan pot
Output Controls: PGM Master Faders (L, R), FB Master Fader, Echo Master Fader, Phones Level Volume, Headphone, Selector Switch
Phantom Switch

New

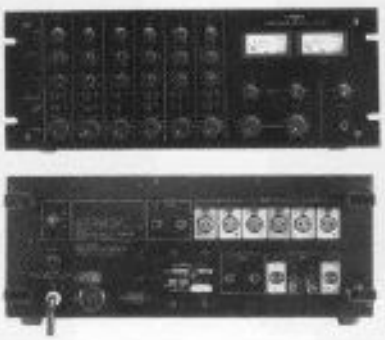
M406

Input Controls (CH 1 ~ CH 6): CH Volume, Input Level Switch (-60/-50/-35/-20/-10/+4) High-EQ, Mid-EQ, Low-EQ, Echo Volume, Pan
Effects in (1, 2): Volume, Pan
Output Controls: PGM (L/R), Echo, Phones & Meter Selector (PGM/ECHO), Phones Volume

PM series

PM-210

(Monaural Mixer)
Inputs: 8 Channel, 2 Auxiliary (Mono)
Outputs: 2 Program, 1 Monitor, 1 To Echo, 1 Aux Out, 1 Phones
Input Channel Controls: Fader, High EQ, Low EQ, Monitor (Reverb/Echo), Sensitivity Selector



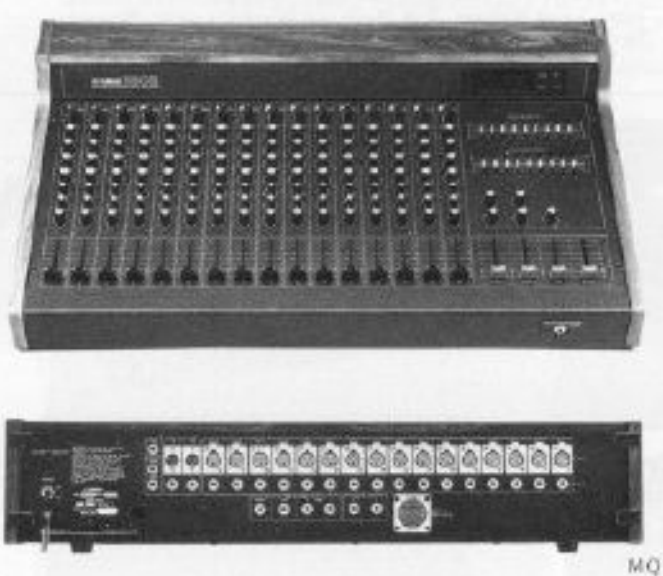
PM-180

Inputs: 6 Channel, 1 Auxiliary (Stereo)
Outputs: 2 Program A, 2 Program B, 1 Phones
Input Channel Controls: Volume, High EQ, Low EQ, High Pass Filter, Pan Pot, Sensitivity Selector

PM-170

Inputs: 6 Channel, 1 Auxiliary (Stereo)
Outputs: 2 Program A, 2 Program B, 1 Phones
Input Channel Controls: Volume, High EQ, Low EQ, High Pass Filter, Pan Pot, Sensitivity Selector

MQ series



MQ1602

MQ1202

MQ1602 MQ1202 *MQ802

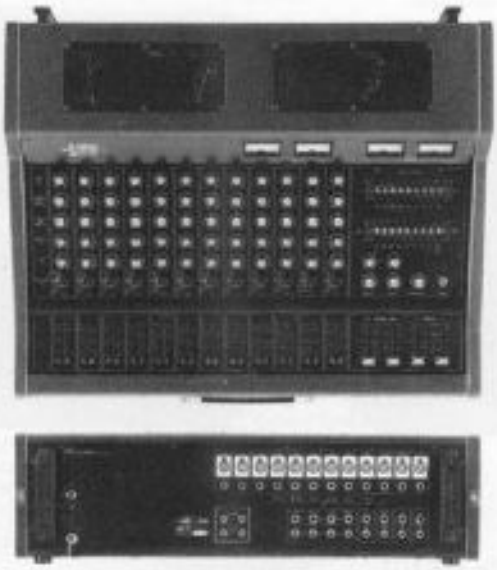
Input Controls: 16 Channel (MQ1602), 12 Channel (MQ1202), 8 Channel (MQ802), CH Fader, Pan pot, EQ (4 stage), ATT (6 step) FB (pre), ECHO (post), Peak Indicator, Aux in 1, 2, Aux in Volume, Aux Pan pot,
Output: PGM (L,R), FB, Echo, Phones,
9-Band G-EQ (x2), 2ch Bar Graph Meter, Sub in PGM (L,R), Sub in FB/Echo, PGM on/off, Echo on/off, FB on/off
MQ1602 General Model has Multi Connector

* Photo not shown.
Same specifications as MQ1602/1202 but comes with 8 input channels.

PM-210
PM-180
PM-170

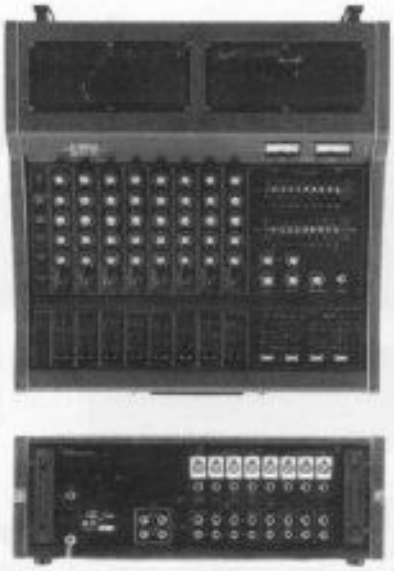
MQ1602
MQ1202
MQ802

Self-Powered Mixers



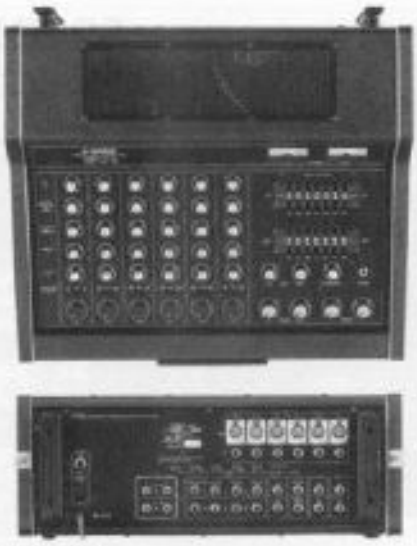
EM-300

Power Output: 280W (140W + 140W) into 8Ω [Power Output: 400W (200W + 200W) into 4Ω*]
Inputs: 12 Channel (Lo-Z, Hi-Z), 2 Aux In, Echo, Return, Graphic EQ In (L, R), Power Amp. In (L, R), 2 Monitor Sub In
Outputs: 2 Speaker Out (L, R), Line Out (L, R), Graphic EQ Out (L, R), 2 Monitor Out, Echo Send, Phones
Input Channel Controls: Fader, Low EQ, High EQ, Monitor 1 (Reverb/Echo), Monitor 2, Pan Pot, Sensitivity Selector



EM-200

Power Output: 170W (85W + 85W) into 8Ω [Power Output: 240W (120W + 120W) into 4Ω]
Inputs: 8 Channel (Lo-Z, Hi-Z), 2 Aux In, Echo Return, Graphic EQ In (L, R), Power Amp. In (L, R), 2 Monitor Sub In
Outputs: 2 Speaker Out (L, R), Line Out (L, R), Graphic EQ Out (L, R), 2 Monitor Out, Echo Send, Phones
Input Channel Controls: Fader, Low EQ, High EQ, Monitor 1 (Reverb/Echo), Monitor 2, Pan Pot, Sensitivity Selector



EM-150II

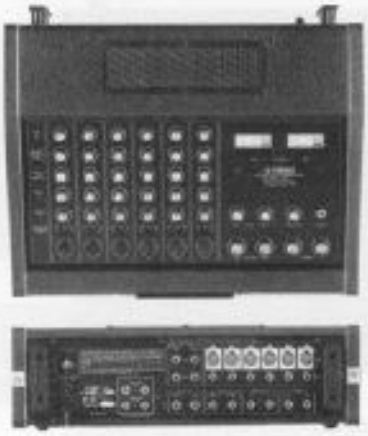
Power Output: 150W (75W + 75W) into 8Ω [Power Output: 200W (100W + 100W) into 4Ω*]
Inputs: 6 Channel (Lo-Z, Hi-Z), Aux In (L, R), Echo Return, Graphic EQ In (L, R), Power Amp. In (L, R), 2 Monitor Sub In
Outputs: 2 Speaker Out (L, R), Line Out (L, R), Graphic EQ Out (L, R), 2 Monitor Out, Echo Send, Phones
Input Channel Controls: Volume, Low EQ, High EQ, Monitor 1 (Reverb/Echo), Monitor 2, Pan Pot, Sensitivity Selector

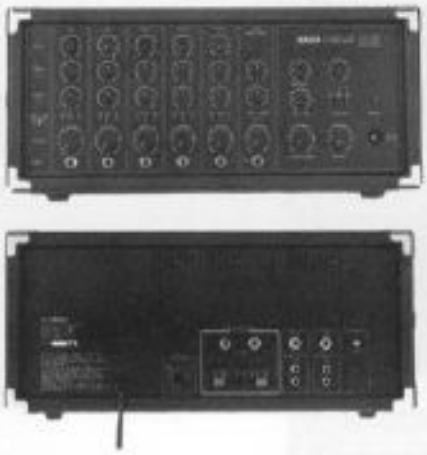
EM-120

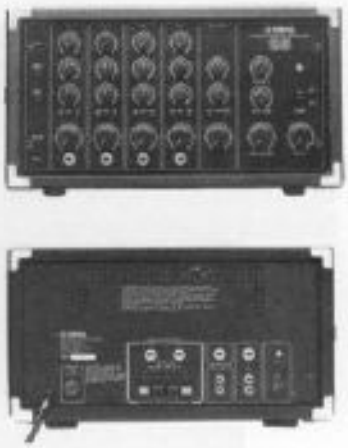
Power Output: 100W (50W + 50W) into 8Ω
Inputs: 6 Channel, Phono (L, R), 2 Aux In, From Echo
Outputs: Speaker (L, R), Rec. Out (L, R), To Echo, Phones
Input Channel Controls: Volume, Low EQ, High EQ, Reverb/Echo, Output Channel Selector, Sensitivity Selector

Self-Powered Mixers

New







EM-100II

Power Output: 100W (50W + 50W) into 8Ω
[Power Output: 140W (70W + 70W) into 4Ω*]
Inputs: 6 Channel (Lo-Z, Hi-Z), Aux In (L, R), Echo Return, Power Amp In (L, R), 2 Monitor Sub In
Outputs: 2 Speaker Out (L, R), Line Out (L, R), 2 Monitor Out, Echo Send, Phones
Input Channel Controls: Volume, Low EQ, High EQ, Monitor 1 (Reverb/Echo), Monitor 2, Pan Pot, Sensitivity Selector

EM-95

Power Output: 65W into 8Ω [100W into 4Ω]
Input: 5 channel (Mic/Inst/Line)
1 channel (Phono/Line), Aux In, Tape In
Master Controls: Function SW, Volume, Echo, Delay Time, Feedback

EM-85

[Monaural Mixer]
Power Output: 50W into 8Ω[70W into 4Ω]
Inputs: 4 Channel, Volume, Input level switch [MIC/INST/LINE], Input switch [AUX-1/AUX-2/Phono], Master Volume, Echo Volume, Echo Feedback, Echo Delay Time

Power Amplifiers

P2200

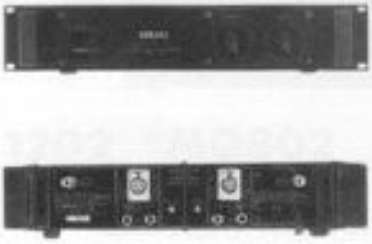
Dynamic Power:
340W + 340W (8 Ω, less than 0.1% THD @ 1kHz)
Continuous RMS Power:
230W + 230W (8 Ω, less than 0.05% THD @ 1kHz)
200W + 200W (8 Ω, less than 0.05% THD 20 ~ 20kHz)
[340W + 340W (4 Ω, less than 0.05% THD @ 1kHz)*]
Frequency Response:
+0dB, −1.5dB, 5Hz to 100kHz (8 Ω, 1 Watt)

P2201

Dynamic Power:
340W + 340W (8 Ω, less than 0.1% THD @ 1kHz)
Continuous RMS Power:
230W + 230W (8 Ω, less than 0.05% THD @ 1kHz)
200W + 200W (8 Ω, less than 0.05% THD 20 ~ 20kHz)
[340W + 340W (4 Ω, less than 0.05% THD @ 1kHz)*]
Frequency Response:
+0dB, −1.5dB, 5Hz to 100kHz (8 Ω, 1 Watt)

P2100

Dynamic Power:
130W + 130W (8 Ω, less than 0.1% THD @ 1kHz)
Continuous RMS Power:
95W + 95W (8 Ω, less than 0.05% THD @ 1kHz)
85W + 85W (8 Ω, less than 0.05% THD, 20 ~ 20kHz)
[140W + 140W (4 Ω, less than 0.05% THD, 20 ~ 20kHz)*]
200W (Monaural Mode: 16 Ω, less than 0.05% THD, 20 ~ 20kHz)
Frequency Response:
+0dB, −1.5dB, 5Hz to 100kHz (8 Ω, 1 Watt)

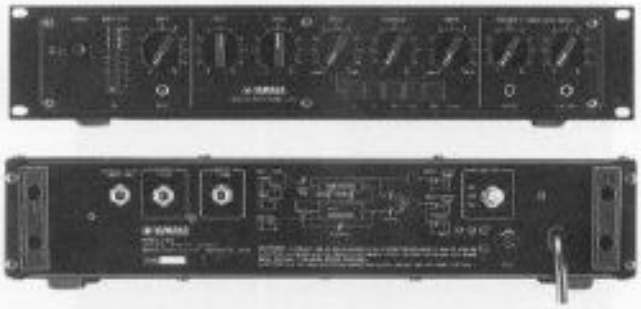


P2050

Dynamic Power:
75W + 75W (8 Ω, less than 0.1% THD @ 1kHz)
Continuous RMS Power:
45W + 45W (8 Ω, less than 0.05% THD, 20 ~ 20kHz)
[60W + 60W (4 Ω, less than 0.05% THD, 20 ~ 20kHz)*]
95W (Monaural Mode; 16 Ω, less than 0.05% THD, 20 ~ 20kHz)
Frequency Response:
+0dB, −1dB, 20Hz to 50kHz (8 Ω, 1 Watt)

* Not applicable in U.S.A. and Canada.

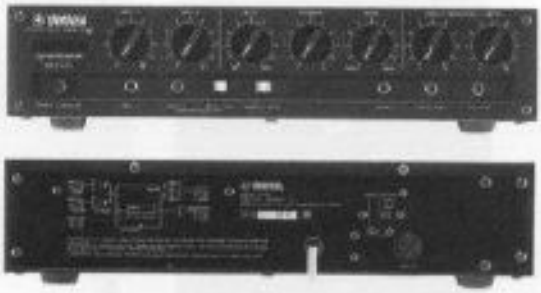
Analog Delays



E1010

Input: 1 Input (−30dB, 80kΩ)
Output: 1 Output (−20dB, 250 Ω), 1 Direct Only (−20dB, 250 Ω)
Input Control: Input Level
Delay Controls: Mixing (Direct/Delay), Bass, Treble, Delay Time, Feedback, Modulation (Frequency, Depth)

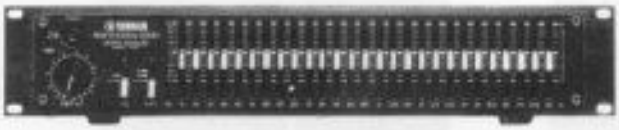
Carrying case for E1010 available as option.



E1005

Input: Input A (−50dB, 25kΩ), Input B (Inst.) (−30dB, 500kΩ)/MIC. (−50dB, 25kΩ)
Output: 1 Output (−20dB, 250 Ω), 1 Delay Only (−20dB, 250 Ω)
Input Controls: Input A Level, Input B Level
Delay Controls: Mixing (Direct/Delay), Delay Time, Feedback, Modulation (Frequency, Depth)

Graphic Equalizer



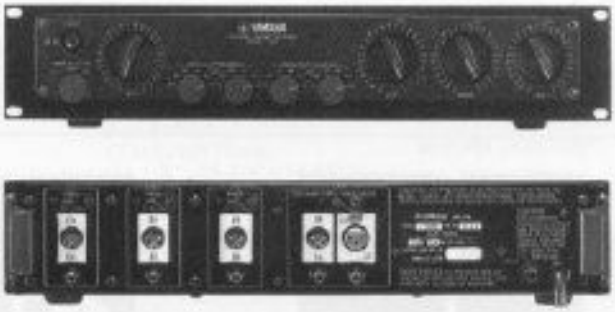
Q1027

Center Frequencies: 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10k, 12.5k, 16kHz
High Pass Filter: 40Hz ± 10%, 80Hz ± 10% (−18dB/octave)

Frequency Dividing Networks

F1040

[Electronic Crossover]
4Way/3Way-1/3Way-2/2Way Selectable Crossover Frequency
(12 or 18dB/octave)
Low: 70, 100, 150, 200, 330, 500Hz
Mid: 0.5k, 0.8k, 1k, 1.2k, 1.6k, 2kHz
High: 1.2k, 2k, 3.3k, 5k, 7k, 8kHz
High Pass Filter Switch: 40Hz (12dB/octave)



F1030

[Electronic Crossover]
2Way-1/2Way-2/3Way Selectable Crossover Frequency
High Pass Filter Internal Switch: 40Hz (12dB/octave)
Left-Hand Set: 250, 500, 800, 1k, 1.2k, 1.5kHz (12 or 18dB/octave)
Right-Hand Set: 2k, 2.5k, 5k, 7k, 8kHz (12 or 18dB/octave)

Speaker Systems

S5115HT

Power Rating: 150W
Woofer: 1 x 15" (38cm) JA3806
M.F. Driver & Horn: 1 x JA6603
Tweeter: 1 x JA4205
Nominal Impedance: 8 Ω

S4115H

Power Rating: 100W
Woofer: 1 x 15" (38cm) JA3803
H.F. Driver & Horn: 1 x JA4201
Nominal Impedance: 8 Ω

S3115H

Power Rating: 100W
Woofer: 1 x 15" (JA3803)
Driver & Horn: JA4204A
Bass Reflex, Black Leatherette
Nominal Impedance 8Ω

S0410H

Power Rating: 100W
Woofer: 4 x 10" (25cm) JA2511
H.F. Driver & Horn: 1 x JA4204
Nominal Impedance: 8 Ω

S0112T

Power Rating: 80W
Woofer: 1 x 12" (30cm) JA3061
Woofer: 1 x 10" (25cm) JA2507
Tweeter: 4 x JA0554
Nominal Impedance: 8 Ω

S0110T

Power Rating: 50W
Woofer: 1 x 10" (25cm) JA2511
Tweeter: 1 x JA0556
Nominal Impedance: 8 Ω

S0108T

Power Rating: 50W
Woofer: 1 x 8" (20cm) JA2059
Tweeter: 1 x JA0556
Nominal Impedance: 8 Ω

S2115H

Power Rating: 100W
Woofer: 1 x 15" (38cm) JA3803
H.F. Driver & Horn: 1 x JA4201
Nominal Impedance: 8 Ω

A0410H

(Self-Powered)
Power Output: 100W
Woofer: 4 x 10"
(25cm) JA2511
H.F. Driver & Horn:
1 x JA4204

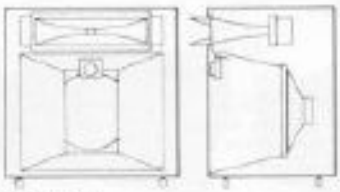
A4115H

(Self-Powered)
Power Output: 100W
Woofer: 1 x 15"
(38cm) JA3803
H.F. Driver & Horn:
1 x JA4201

A0112T

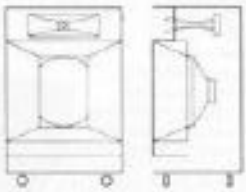
(Self-Powered)
Power Output: 75W
Woofer: 1 x 12" (30cm) JA3061
Woofer: 1 x 10" (25cm) JA2507
Tweeter: 4 x JA0554

SPEAKER SYSTEM ENCLOSURE DESCRIPTIONS & DIMENSIONS (WxHxD)



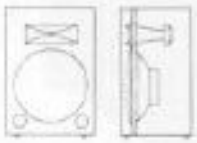
S5115HT

Front Loaded Horn
Bass Reflex
780x914x600mm
(30-⅛x35x23-⅛)"
73kg (160.9 lbs)



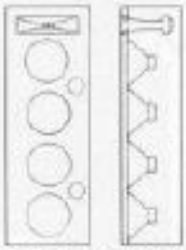
S4115H (A4115H*)

Front Loaded Horn
Bass Reflex
610x908x452mm
(24x35-⅞x17-⅞)"
S4115H: 54kg (119 lbs)
A4115H: 58kg (127.9 lbs)



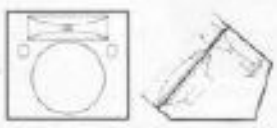
S3115H

Bass Reflex
472x658x372mm
(18-5/8"x25-7/8"x14-5/8")
29.6kg (65.3 lbs)



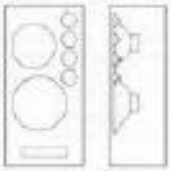
S0410H (A0410H*)

Bass Reflex
445x1270x326mm
(17-½x50x12-¾)"
S0410H: 38.5kg(84.9 lbs)
A0410H: 45kg (99.2 lbs)



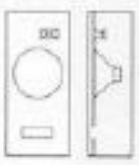
S2115H

Bass Reflex
638x561x680mm
(25-1/8x22x26-3/4)"
40kg (88.2 lbs)



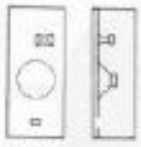
S0112T (A0112T*)

Bass Reflex
435x910x326mm
(17-1/8x35-3/4x12-3/4)"
S0112T: 29kg (63.9 lbs)
A0112T: 36kg(79.4 lbs)



S0110T

Bass Reflex
332x732x235mm
(12-¾x28-⅞x9-¼)"
16kg (35.3 lbs)



S0108T

Bass Reflex
261x642x210mm
(10-¼x25-¼x8-¼)"
10kg (22 lbs)

* built-in power amplifier

Speaker Components

JA3881/3881B L.F.Drivers

Type: 15" (38cm) cone
Nominal Impedance: 8 Ω (JA3881) or 16 Ω (JA3881B) version available
Sensitivity: 99dB SPL/1 meter/1 watt
Free Air Resonance: 40Hz
Frequency Range: 40Hz to approximately 5,000Hz
Highest Recommended Crossover Frequency: 3,000Hz
Power Handling: 120 watts pink noise (EIA weighted), 100 hour;
240 watts musical program, 100 hour
Voice Coil: Aluminum ribbon, edgewound onto 67mm diameter form
Magnet: Ferrite, 1.85kg, with 1.25 Tesla (12,500 Gauss) flux density
Dimensions: Diameter, 390mm; height, 159mm
Net Weight: 9.5kg
Mounting: Baffle cutout diameter, 354mm
Rear mount, 370mm diameter, 8 holes
Front mount with mounting plates, 420mm diameter, 4 holes

JA3882/3882B L.F.Drivers

Type: 15" (38cm) cone
Nominal Impedance: 8 Ω (JA3882) or 16 Ω (JA3882B) version available
Sensitivity: 102dB SPL/1 meter/1 watt
Free Air Resonance: 30Hz
Frequency Range: 30Hz to approximately 4,000Hz
Highest Recommended Crossover Frequency: 800Hz
Power Handling: 150 watts pink noise (EIA weighted), 100 hour;
300 watts musical program, 100 hour
Voice Coil: Copper ribbon, edgewound onto 100mm diameter form
Magnet: Ferrite, 2.85kg, with 1.42 Tesla (14,200 Gauss) flux density
Dimensions: Diameter, 390mm; height, 148mm
Net Weight: 11.6kg
Mounting: Baffle cutout diameter, 354mm
Rear mount, 370mm diameter, 8 holes
Front mount with mounting plates, 420mm diameter, 4 holes

JA4280B Combination H.F.Horn & Driver

Type: Compression driver with radial horn
Dispersion Pattern: 90° horizontal by 40° vertical
Nominal Impedance: 16 Ω
Sensitivity: 105dB SPL/1 meter/1 watt, combined horn and driver
Frequency Range: 800Hz to approximately 16,000Hz
Lowest Recommended Crossover Frequency: 1,500Hz
Power Handling:

	Long Term at least 100 Hour		Instantaneous
	Pink Noise	Musical Program	Peak
@ 1,500Hz cutoff	20 watts	40 watts	100 watts
@ 800Hz cutoff (12dB/octave)	10 watts	20 watts	100 watts

Throat: 20mm diameter
Diaphragm: Aluminum dome with radial tangential edge compliance; field replaceable.
Voice Coil: Aluminum ribbon, edgewound onto 43mm diameter form
Magnet: Ferrite, 0.85kg, with 1.8 Tesla (18,000 Gauss) flux density.
Dimensions: Driver—140mm dia. x 105.3mm high
Horn—170mm H x 440mm W x 370mm D
Combined—412mm driver back plate to horn mouth
Net Weight: Driver—3.7kg, Horn—3.1kg
Mounting: 8 holes in flange at horn mouth for mounting to baffle board or bracket;
Horn throat flange secured to driver with 4 machine screws and tapped driver holes.

JA6681B H.F. Compression Driver

Type: Compression driver
Nominal Impedance: 16 Ω
Sensitivity: 108dB SPL/1 meter/1 watt, with Yamaha H1230 horn
115dB SPL, 1 milliwatt, 25mm terminated plane wave tube
Frequency Range: 500Hz to approximately 12,000Hz
Lowest Recommended Crossover Frequency: 800Hz
Power Handling:

	Long Term at least 100 Hour		Instantaneous
	Pink Noise	Musical Program	Peak
@ 800Hz cutoff	40 watts	80 watts	200 watts
@ 500Hz cutoff (12dB/octave)	20 watts	40 watts	200 watts

Diaphragm: Aluminum dome with exclusive beryllium/copper suspension; field replaceable.
Voice Coil: Aluminum ribbon, edgewound onto 67mm diameter form
Magnet: Ferrite, 1.85 Tesla (18,500 Gauss) flux density
Dimensions: 165mm diameter x 144.4mm high
Net Weight: 6.75kg
Throat & Mounting: 35mm diameter; use Yamaha AD3500 adaptor (1 driver) or AD3502 (2 driver) for use with Yamaha H1230 or JBL horns.
4 holes in front plate, 90mm diameter circle, for Yamaha horn,
3 x 3/8"-16 UNC for Altec Lansing horn.

JA4281B Compression Tweeter

Type: Compression tweeter
Dispersion Pattern: 120° conical at 10kHz
Nominal Impedance: 16 Ω
Sensitivity: 108dB SPL/1 meter/1 watt
Frequency Range: 6kHz to 20kHz
Lowest Recommended Crossover Frequency: 7kHz

Power Handling:	Long Term-at least 100 Hour		Instantaneous
	Pink Noise	Musical Program	Peak
7kHz cutoff (12dB/octave)	20 watts	40 watts	100 watts

Diaphragm: Aluminum ring radiator : Field replaceable
Voice Coil: Aluminum ribbon, edgewound onto 43mm diameter form
Magnet: Ferrite, 0.85kg, with 1.9 Tesla (19,000 Gauss) flux density
Dimensions: 140mm diameter x 135mm high
Net Weight: 4.4kg
Mounting: Baffle cutout diameter, 114mm. Four threaded holes on 130mm circle around cutout, #8-32 UNF.

H1230 H.F.Radial Horn

Type: Radial horn
Dispersion Pattern: 90° horizontal by 40° vertical
Sensitivity: 108dB SPL/1 meter/1 watt or 59dB SPL/30 feet/1 milliwatt with Yamaha JA6681B driver
Cutoff Frequency: 300Hz
Lowest Recommended Crossover Frequency: 500Hz
Throat Adaptor: Yamaha AD3500 (single driver) or AD3502 (dual driver)
Dimensions: 248mm H x 713mm W x 449mm L
Net Weight: 10kg
Materials: Aluminum, coated with damping material

AD3500/3502 Throat Adaptors

Number of Drivers Accepted: One with Model AD3500; Two with Model AD3502
Horn Compatibility: Yamaha H1230 or JBL2350, 2355, 2397, etc.
Entry Diameter: 35mm x 2 on AD3502
Mouth Dimension: 34mm x 100mm
Length (AD3500): 134mm
Cross-Angle of Throats (AD3502): 60°

DN2800/DN2080 Dividing Network

DN2800 DN2080

DN2800

Type: Passive Crossover
Crossover Frequency: 8000Hz
Impedance and Cut off Slope:
Low Frequency 16Ω 12dB/Octave
High Frequency 16Ω 18dB/Octave
High Frequency Attenuation: Continuously Variable
Power Capacity: Continuous Program 75W (8Ω)
Dimensions: 100mmHx240mmWx140mmD
Net Weight: 2.2kg

DN2080

Type: Passive Crossover
Crossover Frequency: 800Hz
Impedance and Cutoff Slope:
Low Frequency 8～12Ω 12dB/octave
High Frequency12～16Ω 12dB/octave
High Frequency Attenuation: Continuously variable
Power Capacity: Continuous program 150 watts (8Ω) Sine wave 50 watts
Dimensions: 100mmHx240mmWx149mmD
Net Weight: 2.8kg

Diaphragm

D6681B
For JA6681B
Aluminum dome with exclusive, beryllium/Copper Suspension : field replaceable

D4281B
For JA4281B
Aluminum ring radiator : field replaceable

D4280B
For JA4280B
Aluminum dome with radial tangential edge compliance: field replaceable

RECOMMENDED COMBINATIONS OF YAMAHA SOUND REINFORCEMENT

	MODEL	S0108T	S0110T	S0112T	A0112T	S0410H	A0410H	S2115H	S3115H	S4115H	A4115H	S5115HT
Specs	Sensitivity (dB/w,m)	92	97	98		100		97	98	101		100
	Power Rating (w)*/ Power Output (w)**	50	50	80	(75)	100	(100)	100	100	100	(100)	150
	Frequency Range (Hz)	65 ~ 19K	70 ~ 19K	70 ~ 13K		65 ~ 14K		65 ~ 14K	65 ~ 14K	70 ~ 14K		60 ~ 20K
	Crossover Frequency	6K	6K	4.5K		3K		2K	2K	2K		800, 8K
Recommended Combinations	PM Series	–	–	–	○	–	○	–	–	–	○	–
	M Series	–	–	–	○	–	○	–	–	–	○	–
	MQ Series	–	–	–	○	–	○	–	–	–	○	–
	EM-85	○	○	○	–	–	–	–	–	–	–	–
	100II	○	○	○	–	○	–	–	○	○	–	○
	120	○	○	○	–	○	–	–	○	○	–	○
	95/150II	–	–	○	–	○	–	–	○	○	–	○
	200	–	–	–	–	○	–	○	○	○	–	○
	300	–	–	–	–	–	–	–	–	–	–	○
	P2200/2201	–	–	–	–	–	–	–	–	–	–	○
	2100	–	–	–	–	○	–	○	○	○	–	○
	2050	○	○	○	–	○	–	○	○	○	–	○
	F1040/1030	–	–	–	–	–	–	–	–	–	–	○
Recommended Usage	Stage Monitor	–	–	○	○	○	○	○	○	○	○	○
	Small Clubs	○	○	○	○	○	○	○	○	○	○	○
	Large Clubs	–	–	○	○	○	○	–	○	○	○	○
	Small Auditoriums	–	–	○	○	○	○	–	○	○	○	○
	Large Auditoriums	–	–	–	–	○	○	–	○	○	○	○
	Field Houses	–	–	–	–	○	○	–	○	○	○	○
	Outdoor Concerts	–	–	–	–	–	–	–	○	○	○	○
	Comments	• Compact	• Compact	• For Vocal PA		• Wide Horizontal Dispersion • For Vocal PA		• Proper Dispersion	• Horn Types • For All Inst.PA			• Horn Type • For All Inst.PA

* Continuous Program ** RMS

Note: The speaker system may be damaged if input is applied continuously at higher than the rated value.

Miscellaneous

Modules for the PM-2000 Mixing Console

IP-2000: Input Module,
MT-2000: Master Module,
PN-2000: Foldback/Phone Module,
EF-2000: Effects Module,
TB-2000: Talkback Module

Dynamic Microphone DM-5080

Uni-directional
Frequency Response: 100 ~ 12kHz
Sensitivity: −58dB ± 3dB (High), −76dB ± 3dB (Low)
Output Impedance: Dual Impedance; 50kΩ ± 30% (High), 600Ω ± 30% (Low)
Includes swivel adapter.

Mixer Racks (Standard 19" Racks)

Great for fixed installations.

H: (W×H×D)
521×1269.5×395mm
(20-½×50×15-½)"

L: (W×H×D)
521×958.3×395mm
(20-½×37-¾×15-½)"

Rack-mountable units: M406, PM-180, PM-170, E1010, F1040, F1030, Q1027, P2200, P2201, P2100 and P2050

DRUMS

New

System Drums

YD-9000RA Series

BD-926RAx2
FT-918RA
FT-916RA
TT-915RA
TT-914RA
TT-913RA
TT-912RA
TT-910RA
TT-908RA
SD-970RA
FP-910x2
TH-715x2
CH-712x2
CH-710x2
CSAT-912x2
CSAT-910x2
HSAT-910
WS-910x2
SS-910
CS-912x3
HS-910

Cymbals not included.

System Drums

New

YD-9000RA Series

BD-922RA, FT-918RA, FT-916RA, ET-914RA, ET-913RA, ET-912RA, ET-910RA, ET-908RA, ET-906RA, SD-970RA, FP-910, CH-712, CH-710x2 CSAT-912, CSAT-910, WS-910x3, SS-910, CS-912x2, HS-910

Cymbals not included.

YD-9000GA Series

YD-922WA, FT-914GA, TT-910GA, TT-908GA, SD-955GA, FP-710, CH-712, WS-910x2, SS-910, CS-712x3, HS-710

Cymbals not included.

YD-7000GA Series

YD-722WE, TT-714GA, ET-908GA, ET-906GA, SD-765GA, FP-710, CH-712x2, CSAT-914, ETS-910, WS-712, SS-710, CS-712, HS-710

Cymbals not included.

YD-5000GA Series

YD-5322WE,

Cymbals not included.

9000 SHELL SETS		7000 SHELL SETS	
YD-924WA	BD-924GA, FT-918GA, TT-913GA, TT-914GA, TH-91W	YD-724WE	BD-724GA, FT-718GA, TT-713GA, TT-714GA, TH-71W
YD-922WA	BD-922GA, FT-916GA, TT-912GA, TT-913GA, TH-91W	YD-722WE	BD-722GA, FT-716GA, TT-712GA, TT-713GA, TH-71W
9000 HARDWARE SETS		7000 HARDWARE SETS	
HW-900E	CS-910, CS-912, SS-910, HS-910, FP-910	HW-700E	CS-710, CS-712, SS-710, HS-710, FP-710
5000 DRUM SETS			
YD-5324WE	BD-524GA, FT-518GA, TT-513GA, TT-514GA, SD-765MA, CS-510x2, HS-510, SS-510, FP-510, TH-51W	YD-5322WE	BD-522GA, FT-516GA, TT-512GA, TT-513GA, SD-550MA, CS-510x2, HS-510, SS-510, FP-510, TH-51W

COLOR FINISHES

	YD-9000RA	YD-9000GA SD-900	YD-7000GA	YD-5000GA	CONCERT-TOMS RA · GA		YD-5000RA	YD-9000GA SD-900	YD-7000GA	YD-5000GA	CONCERT-TOMS RA · GA
HOT RED	○				R	DARK WOOD			○		
JADE GREEN	○				R	GARNET RED		○	○	○	G
MELLOW YELLOW	○				R	DEEP GREEN		○	○	○	G
SOLID BLACK	○				R	JET BLACK		○	○	○	G
STAGE WHITE	○				R	WINTER WHITE		○	○	○	G
SUNSET BROWN	○				R	SONIC BLUE		○	○	○	G
REAL WOOD		○			R	SUNRISE YELLOW		○	○	○	G

Shells

New

Bass Drums

BD-922RA

BD-922GA

BD-722GA

BD-522GA

Floor Toms

FT-916RA

FT-916GA

FT-716GA

FT-516GA

Tom Toms

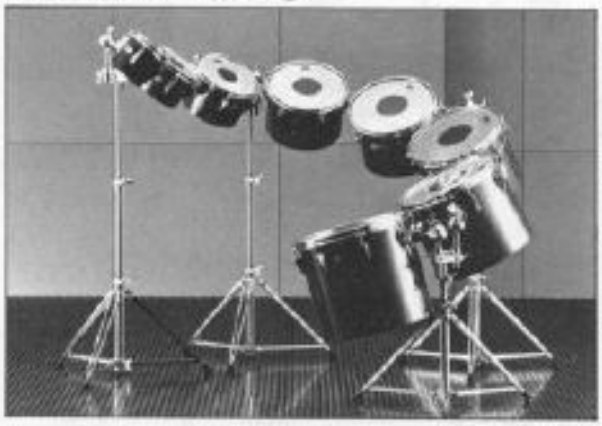
TT-913RA

TT-913GA

TT-713GA

TT-513GA

Concert Toms



ET-9000RA

ET-9000GA

ET-9000RA

	SIZE	#9000R	#9000	#7000	#5000		SIZE	#9000R	#9000	#7000	#5000
BASS DRUMS	14x26"	BD-926RA	BD-926GA	BD-726GA		CONCERT TOMS	14x16"	ET-916RA	ET-916GA		
	14x24"	BD-924RA	BD-924GA	BD-724GA	BD-524GA		12x15"	ET-915RA	ET-915GA		
	14x22"	BD-922RA	BD-922GA	BD-722GA	BD-522GA		10x14"	ET-914RA	ET-914GA		
	14x20"	BD-920RA	BD-920GA	BD-720GA			9x13"	ET-913RA	ET-913GA		
	14x18"	BD-918RA	BD-918GA	BD-718GA			8x12"	ET-912RA	ET-912GA		
FLOOR TOMS	16x18"	FT-918RA	FT-918GA	FT-718GA	FT-518GA		6-1/2x10"	ET-910RA	ET-910GA		
	16x16"	FT-916RA	FT-916GA	FT-716GA	FT-516GA		5-1/2x8"	ET-908RA	ET-908GA		
	14x14"	FT-914RA	FT-914GA	FT-714GA	FT-514GA		5-1/2x6"	ET-906RA	ET-906GA		
TOM-TOMS	12x15"	TT-915RA	TT-915GA	TT-715GA							
	10x14"	TT-914RA	TT-914GA	TT-714GA	TT-514GA						
	9x13"	TT-913RA	TT-913GA	TT-713GA	TT-513GA						
	8x12"	TT-912RA	TT-912GA	TT-712GA	TT-512GA						
	8x10"	TT-910RA	TT-910GA	TT-710GA							
	8x8"	TT-908RA	TT-908GA								

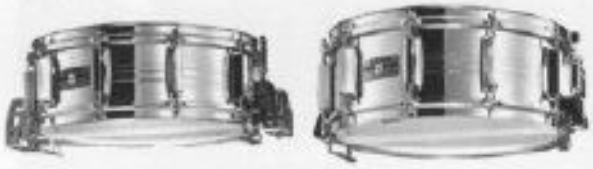
Snare Drums/Hardware

New

Snare Drums

	SIZE	#9000R	#9000	#7000	#5000	#000
SNARE	5x14"	SD-950RA	SD-950GA	SD-750GA		SD-050GA
DRUMS	5-1/2x14"	SD-955RA	SD-955GA	SD-755GA		SD-055GA
(WOOD	6-1/2x14"	–	–	SD-765GA		SD-065GA
SHELL)	7x14"	SD-970RA	SD-970GA	–		–
(METAL	5x14"		SD-950MA	SD-750MA	SD-550MA	SD-050MA
SHELL)	5-1/2x14"		SD-955MA	SD-755MA		SD-055MA
	6-1/2x14"		SD-965MA	SD-765MA		SD-065MA

Metal



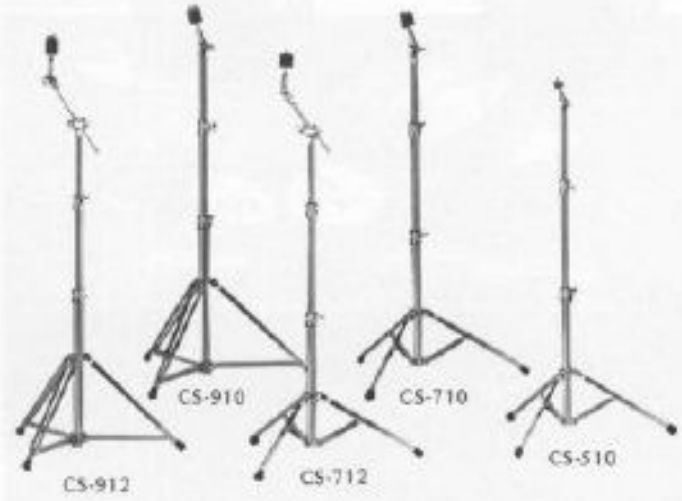
SD-055MA SD-955MA

SD-755MA SD-550MA

Wood

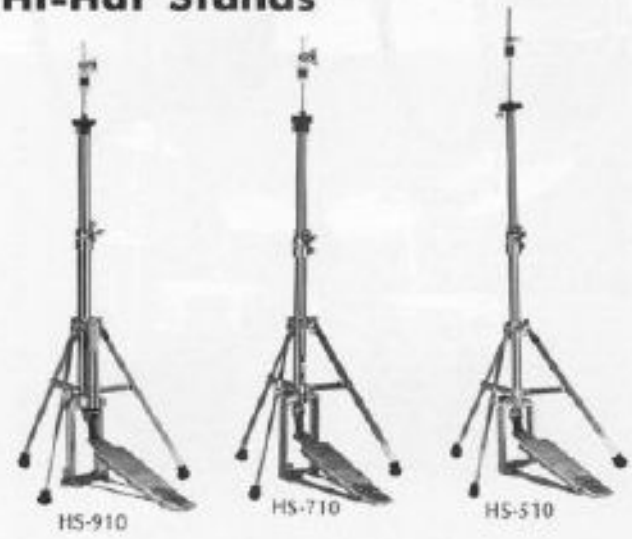
SD-955RA SD-970GA SD-755GA

Cymbal Stands



CS-912 CS-712 CS-910 CS-710 CS-510

Hi-Hat Stands

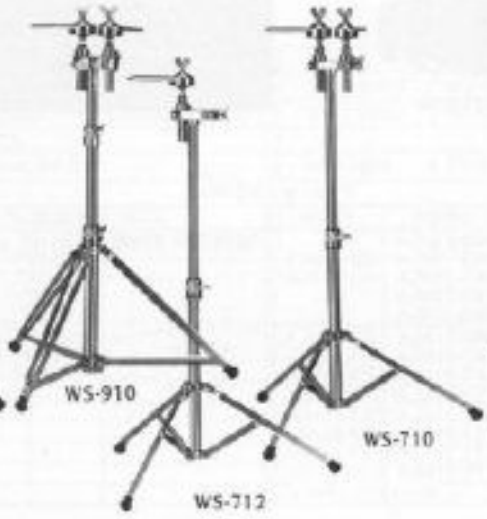


HS-910 HS-710 HS-510

Snare Stands

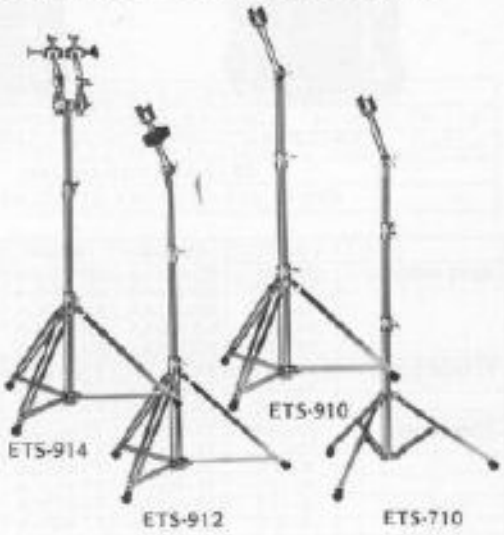
SS-910 SS-710 SS-510

Double-Tom Stands



WS-910 WS-710 WS-712

Concert-Tom Stands

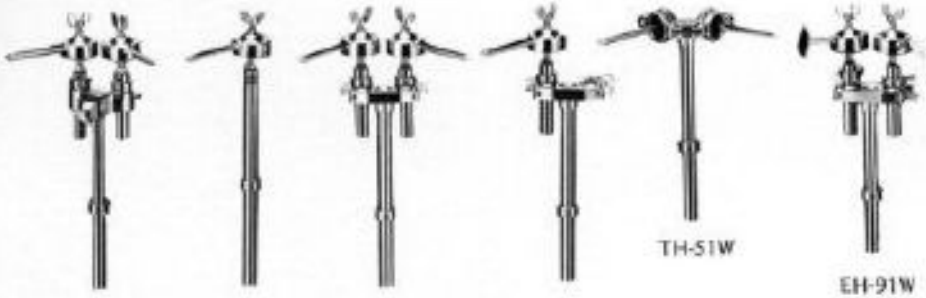


ETS-914 ETS-910 ETS-912 ETS-710

Hardware

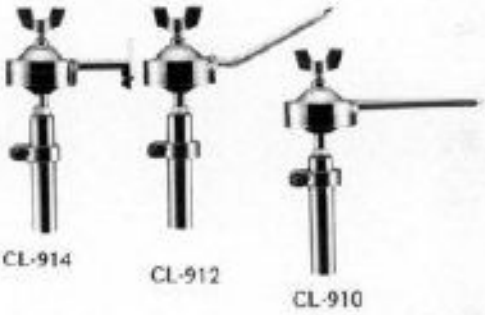
New

Tom Holders



TH-91W TH-91S TH-71W TH-71S TH-51W EH-91W

Clamps



CL-914 CL-912 CL-910

Foot Pedals

FP-910 FP-710 FP-510

Thrones

DS-910 DS-710 DS-510

Cymbal Holders

CH-712 CH-710

Cymbal Stand Attachment

CSAT-914 CSAT-912 CSAT-910

Hi-Hat Stand Attachment

HSAT-910

Stabilizer

SB-910

Optional Mutes

MU-912 MU-910

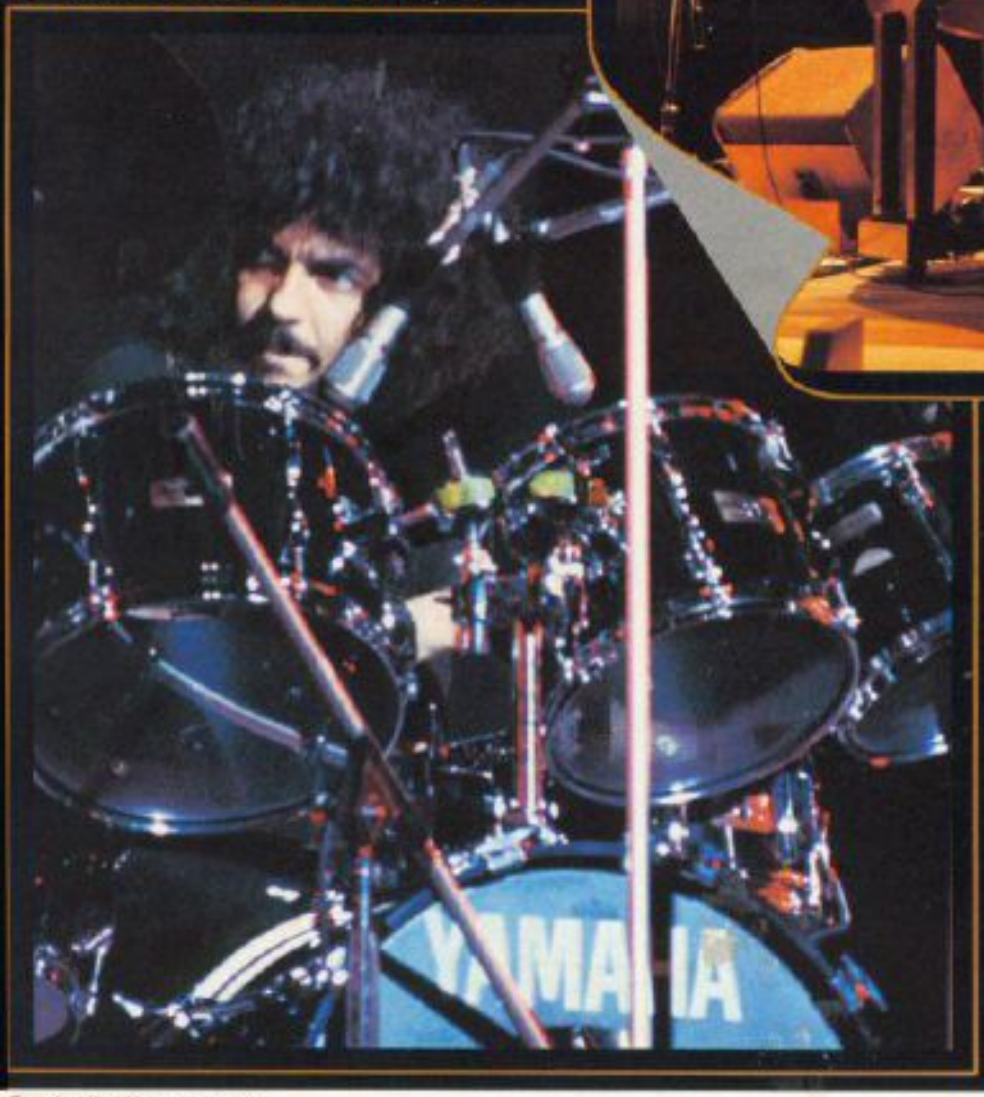
HARDWARE		HARDWARE	
Cymbal Stands	CS-912, CS-910, CS-712, CS-710, CS-510	Foot Pedals	FP-910, FP-710, FP-510
Hi-Hat Stands	HS-910, HS-710, HS-510	Thrones	DS-910, DS-710, DS-510
Snare Stands	SS-910, SS-710, SS-510	Cymbal Holders	CH-712, CH-710
Double-Tom Stands	WS-910, WS-712, WS-710	Cymbal Stand Attachment	CSAT-914, CSAT-912, CSAT-910
Concert-Toms	ETS-914, ETS-912, ETS-910, ETS-710	Hi-Hat Stand Attachment	HSAT-910
Toms Holders	TH-91W, TH-91S, TH-71S, TH-51W, EH-91W	Stabilizer	SB-910
Clamps	CL-914L/R, CL-912, CL-910	Optional Mutes	MU-912, MU-910

All specifications subject to change without notice.

Tom Holders
Clamps
Foot Pedals
Thrones
Cymbal Holders
Cymbal Stand Attachment
Hi-Hat Stand Attachment
Stabilizer
Optional Mute

CHICK COREA with GS

STEVE GADD with
YAMAHA SYSTEM DRUMS



Yamaha makes it music

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LM-101 82440 Printed in Japan